

VHEN the WORLD TOTTERED



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The Editor Notebook A CONFIDENTIAL CHAT WITH THE EDITOR

D ROBABLY the greatest single distinction the science-fantacy field has achieved lies in the fact that its readers, over a period of years, have united in a naticewise fan organization. It is true distalled to the companion of the true distalled of the companion of the part in the fan during the strength part in the fan during the time way or another the great majority have some contact with the general fan world.

TALE PIES recent World's Science Pielies Convention had in Perthand, Orson. While we could not find time to alter the property of the country of the seconds of the success of the Conventions have been cold us by fans and writers have been cold us by fans and writers have been cold us by fans and writers been conventionally of the property of the second property of the convention of the proting of the property of the property ties fan government has achieved, and know, more launch to that record.

A LONG TETES lines we were very interested in inexture what one of the
top treeted in interface what one of the
top treeter in the factor had been as you are
to represent the tage. We turnled with Ted
Surgroon the offset day, and Ted told us
that one of the major developments that
the Convention fathered is the newly proposed. FWA (Fantasy writers of America

TPHIS NEW organization in the stf field I will be one aimed at uniting all of the writers into a well knit organization, much as the general fan world, but in this case it will be professional verture.

its and outlined a few of the principal aims of the FWA. They include a further proto motion of the field itself, along with the
type general fan werld, and, of, course, since
the members will be professional writers,
the bettering of the economic conditions
in the science-fantasy writing field.

AS YET THERE isn't a great deal we understand that plans are aiready being outlined for an early developing program. Ted Sturgeen, as acting Cuairman, promised us further news at the carliest op-

NATURALLY we didn't let Ted's visit has without a not too gentle bind that the readers of FA would like to see more of his fine work in the near future. (Ted's now!, "The Dranning Jewek", polhished in the February, 1850 FA, is now in book form). Before Tel elft town he may be the see that t

J. W. HAD ANOTHER victor passing with trough town a few alors ago. Too at severite Geeff St. Reynard, who, as all two for dyne know in that us mad cleaning to the severe the severe the severe to see us on his way to Loo Angeles where he shades to relax and cost tur on the severe to ack Genff to do us a new story—he walked in and handed us a long cover in stery! All off which pleased us very made in stery! All off which pleased us very made and pleased us very made of PA. See you could it in one and please of PA. See you could it in one and please of PA.

WE LEARNED one interesting thing from Goodf in relation to his writing. On his recent "Mistress of the Disne" he spent for solid months doing research the conventional history hooks, to the property he had tust completed, with an Egyptian backgroupd, recivited as great deal of re-

A LL OF WHICH goes to show you that our writers work hard at their trade, and do sweything they can to make a story factual as well as entertaining. This is as it should be, for things like that go into making a really good writer. And we modestly sold that we do our best to discover such talent—for your reading illeature.



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By Ramsey Sinclair 103
10101 STICK

IDIOT STICK By J. R. Marks 103
CYBERNETIC QUIBBLE
By A. Meeris 116
FROUGH TO FAT2

By Cal Web5 | 117
READER'S PAGE | 118
READER'S PAGE | 118
FARES FROM THE FUTURE | 118
FARES FROM THE FUTURE | 155

Parkitions covering by MNF-paying Publishings Gold North Wateris Are. Charges J. H. See Kork within Are See York U. S. L. States of a second office 1941 at the Pect Office States of the Act

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All Stories Complete

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a scene from "When the World Totterad".

Very Clay 1, 180, EAPY-DAYS POLLAHING COMPATY
We do not become the control of the



The whicing blades of the charlet cut a swath through the glants' ranks . .

WORLD TOTTERED



If the fates were correct, disaster would visit Odin and his sens. Then could a mortal change the destiny of the Gods?

"An aze-age, a sword-age, shields shall be shattered;

A wind-age, a wolf-age, ere the world tollers."

CHAPTER I

If IF SVENNEN threw the last split log against the saw, feedwine of the hlade. Then be straightened his lean body, knocked the bland half back from his eyes, and klocked
off the motor. The mechanical growl
faded down to nothing, lettled
off one of the wind and the pluging of
icy crystals on the metal - root
one through. He scowled at it and began
heating his hands' together to warm
heating his hands' together to warm

"Fine way to end September," he said; hut there was no surprise in his voice. It was a purely routine remark, and his visitor took it as such, though his own scowl deepened.

"Yeah. Radio says there's a hizzard running from Dakota clear down to Kentucky. Guess we're just getting the edge. Helluva year—no summer, killing frost early August, now this. I hear some people claim it's the end of the world."

He lifted inquiring eyes that mirrored doubt and reluctance to express his own ideas without encouragement, waiting for Leif's response. Then he shrugged, "Made up your mind about

your dog?"
"It's still made up, if that's what
you mean," Leif answered flatly. "He's
heen chained the last two weeks. And
I'm not going to kill him because of
a bunch of lies. Is that what you came
about. Summers?"

Summers besitated, trying to play safe and straddle the fence, as usual.
"Just figured 1'd better warn you they're holding a meeting on it. Al Storm had two pigs killed last-night, big tracks around like a wolf—or your dog. Storm's mighty put outsigures the dog's gotta go, and seems to want to take you with bim. With food getting scarce, and all... Well, I just thought 1'd tell you. Maybe you

hetter attend the meeting." Leif nodded. Summers was right, at

that. With the loss of crops and the crisis in food over the whole world, there had already hen lynchings in some places for less than the loss of a pig. He scratched bis nose thoughtfully, and Summers relaxed, biting off a fresh chew of tohacco.

"Seen an angel last night," be

announced importantly, to change the subject. "Big blonde woman on a white borse, singing loud enough to raise the dead, about a hundred feet up in the air, going bell-bent east. Four of us out hunting all seen her—just like the ones all the soldiers been reporting over there. Long ahout sundown, if there'd been a, sum...OI course, we heard about the one in Twin Forks,

but...."

Leif let bim ramble on, not surprised by it, but trying to pretend interest. Every war has its mass hallucinations, and the stalemate that had begun in Europe was loaded with the hysteria of the weather and the fear of famine to come, as well as tension over the atomic bombs that had somehow not yet been used. It was small wonder that reports kept trickling back of angels riding the sky on horseback. And, like the flying saucers of a few years before, it had spread until everyone was beginning to see them. It bad probably been only a trick cloud, catching a stray ray of sunshine, hut there was no use in robhing Summers of bis importance by

HE WELCOMED the sound of the phone from the house when his ears caught it during a hull in the wind. He started out at a run, throwing words over his shoulder at Summers. No knowing bow long it had been ringing.

suggesting that,

It was still ringing as he grabbed it up, though, and the voice of his

twin brother carne from the receiver. "About time, Leif. How soon can you pick me up?"

"What happened?"

"Skidded into a telephone pole. Not much left of the machine, but I iumped in time. Few scrapes and hruises. You should see the nurse I've got handaging them, Mm-mm!" The phone carried only his chuckle as he said something away from it.

- "I told you not to take that damned motorcycle out on these roads " Leif began, but Lee cut him off, still chuckling.

"So you did, son, so you did. Look, I'm at the Faulkner place-Know where it is? Good. Then come and collect your erring brother."

The phone went dead, and Leif grinned wryly, with a mental picture of how the handaging would he done. Lee was like that. The crazy fool had managed to get into the Second War at fifteen, and had followed that by a trick in China, down into some South American fracas, and over half the unknown world; his letters had come back now and then, filled with exploits casual heroism, new citations, girls, and money that Leif had used to develop their farm.

Now he was back to recover from a chest' wound he'd picked up as a mercenary in the new French Interior Legion, and already bored with the farm and quiet. It was like him to go careening off on his motorcycle before his chest was half healed, and to consider the almost certain accident only a loke and a chance for another conquest.

Summers was gone when Leif came out. He glanced at the shed, saw that Lobo was still chained securely, and headed for the garage. It took time to put-on skid-chains and check the car against any trouble from the roads. Lee wouldn't have bothered, Leif realized as he started the motor. But.

the habits of caution were ingrained. He'd stayed on to run the farm and build up the orchard, to plan and go slowly. Maybe the full cellars and the bank, account justified it. But there

were times when the letters from Lee came, or on the rare visits, when he wondered. The most excitement he'd known was from vicarious adventure on the television or in books. And as for romance....

Then his thoughts veered back to normal. Now he wouldn't be able to attend the meeting and heat sense into the heads of the would-he-vigilantes who were set to kill Lobo. Lee would pick a time like this!

The wind was increasing in strength, and the dull grey sky was hidden by heavier snow. It was still crystalline and sharp, though, bouncing on the frozen mud of the road and whipping against the windshield: Leif hunched over the wheel, staring ahead. He cut the heater up to maximum, but the wind whipped out the warmth before he could feel it. Driving back would be rugged.

To make it worse, there were still quite a few cars on the road-probably city people out trying to buy food in the country, and now scared back by the storm. He came to a rough stretch of road, barely wide enough for one-lane traffic, and pulled off at the side, skidding as he slowed to a stop. He waited impatiently as the Cadillac crept by.

THEN HIS foot reached for the gas, iust as a rap sounded from the right front window. Leif swung about sharply. There had been no one near. he was sure. But now he stared into a red-bearded face and a pair of dark eyes, set too narrow and too deep. It was a handsome face, from what the heavy beard revealed, but something in it jerked Leif back, before he

caught himself and opened the door.

ready upon us."

"They call me Laufeyson," the stage announced coolly, but there was a hint of a chuckle in his voice, and bis lips parted in a fleeting smile that beld a queerly sardonic twist. "I'll ride with you, Leif Svensen, since you're going my, way. I'm happier not to walk, with the Finbulwinter al-

The word struck a familiar cbord, and Leif groped for it, forgetting to puzzle over Laufeyson's knowing his name, or his sudden appearance. Then the word came hack from stories he'd heard as a child. "Fimbulwinter—the dreadful winter. Wasn't that supposed to precede the Twilight of the Gods,

or some such? The big war between gods and giants?"
"The Ragnarok. And the old blood runs strong in you, Leif, if you know

that." The shadowed eyes were still studying Leif, with the wrinkles around them deepening in some sly amusement. "But I knew that, Eh, it darkens early. You're, lucky for the

lights on this—car."
Leff nodded, The name-lifted the weather; it was winter, September or not. He cut on the radio to the local FM station, out of habit, listening to the weather reports. Beside bim, the other jumped at the sound of the voice from the speaker, his red beard seeming to bristle suddenly. Then he chuckled, and sat back to liste have the speaker, his red beard seeming to bristle suddenly. Then he

Leff went on with his worrying over the road, listening with only half his mind. Food riots in the east, crime everywhere, fanatic groups in California, another was heginning, in South America, and utter chaos in South America, and utter chaos in ville, the Larson brothers had quarried over carrying in the wood, and killed each other with kitchen knives. And there were three more accounts of the angel riders in the sky, with ance of holy objects, such as the air

over churches. Then the announcer let his voice take on forced, almost falsetto optimism as he hegan on the weather.

Laufeyson broke in on that. "Your Noms in the box makes no sense," he said. "Talk of wind direction, when every fool knows the winds blow from all quarters at Fimbuljahr. Unless I smell it wrong, there'll he three days of hiltzard. or more."

Leif nodded and cut off the radio; the forecasts were usually wrong now. He slowed as he came to a side road.

"Par as I go in this direction."
"I'll go with you, Leif, until you find your brother. I'm seeking a wolf, though not as the One-Eyed thought.

and Faulkner's land is as near as any for me."

Leff stole a glance at him, but something about the eyes of the hitch-hiker held back bis curiosity. He shrugged off a sbiver that ran up bis spine, and

concentrated on his driving over the pitted little road. Lee's motorcycle came into view, crumpled completely, and already being covered by show. How the rider had, escaped injury was a miracle.

He drove up the lane and parked on the shattered side of the house. "Coming in?"

"I'll wait bere, now that the wind no longer blows through this. And when I'm warmer, I'll be on my way."

Leff let it go at that, and went ipp the crackling, some-overed steps. He rang, waited, and rang again, not surprised at the delay, even though his own efforts to date Gail Faulkner two years ago bad been futile. He was grinning as she opened the door, and she dropped beer tyees, blushing alightly. Behind her, Lee seemed pleased about everything, though the knees were ripped from both legs of his paths, and one hand was handaged.

"Come on in and sbut the door, son," he advised. "Hot coffee coming up. You run along and fix it, honey, Leif probably wants to bawl me out."

EIF GRINNED in spite of his in-tentions. Nobody had ever succeeded in staying mad at Lee, and be was still a sucker for his twin. The expression on their faces was the only dissimilarity in their looks, but it was enough. He let the unconscious resentment of Lee's too-ready success with girls fade, and dropped into a

chair before the radiator, soaking up the heat gratefully. "Go out and tell Laufeyson-in the car-to come in for some of the coffee, Lee, and we'll forget it. Though you did raise hell with my plans,"

But Lee had already gone out, not bothering to put on his lacket. Then he was back, "Nobody there, But why didn't you bring Loho inside? With the scare on, he shouldn't he running

loose."

Leif jerked up, suspecting a joke, but Lee's face was serious. He looked again, then went out after his brother: He didn't need Lee's words to spot the footprints. Laufeyson was gone, and there was no mark of his going in the snow. Instead: beginning at the car, the prints of a large dog or wolf cut off around the huildings; there were no marks to show how the

"Laufeyson must have had his tracks covered by a gust of snow," he decided aloud, "But those prints can't be Loho's-he'd have come to the house after me, even if he could get loose and follow the car." .

knimal had reached the car:

"This Laufevson must have been a werewolf-then. Come on, let's get that coffee."

Leif dismissed the uncomfortable puzzle, remembering the effect Laufeyson had worked on him: Hell: in another month, he'd he seeing angels riding in the sky. What he needed was coffee and some of the slaphappy

conversation that was sure to surround Lee and a girl.

But he was still puzzling over it more than listening to them when a car drove up, an hour later. Gail made some remark about her father and went hack to the kitchen, while Lee reached for his jacket. There was a mutter in the rear, and then Faulkner's voice reached them.

".... new guy, never seen him before. Got there just when the meeting was breaking up in a draw. Sure put some gumption into those weak-kneed guys, though, Dead right, too, If Svensen won't get rid of that killer, by God, we'll do it ourselves-going

around " His words out off as he reached the living room and spotted Leif and Lee. and sullen embarrassment covered bis prizzled face. Gail went scarlet and miserable behind him. Then his

stooped shoulders squared belligerently. "Get out! Get out of my house, hoth of you, hefore I throw you out. Sneaking around" Lee finished buttoning his jacket

leisurely, still grinning, but there was a coldness to the grin that cut off the whipped-up rage of Faulkner and sent the man stumbling backward; "We're going, Faulkner, But if you really feel like losing that temper of yours, drop over any time, Haven't had a workout for weeks. Come on. Leif. Gail honey, I'll he seeing you

later. And thanks for the coffee. The girl stared at her father for a moment, then came forward to open the door for them, disregarding Faulkner's bellow. She came out on the porch; starting to apologize. Lee cut her words off; pulling her face up to his. She tiptoed to meet him quickly -and jerked back with a sudden

They turned to follow her pointing finger.

ries."

The sky was black already, the thickening snow visible only where the lights of the house hit it. But something white was coming through it, squarely in the path of the light. A lusty female voice hit their ears, and a big blonde woman with the build of an Amazon appeared, mounted on the biggest white horse Leif had ever seen. She seemed to be riding down the light, staring straight ahead at the Svensens, with the hooves of the horse some four feet off the ground. Then ber voice lifted in pitch, and the horse reared, leaping upward over the porch, while the song drifted out into silence, When they reached the rear of the house, she was gone.

CHAPTER II

LEIF CLIMBED into his car, waiting while Lee calmed the girl and made his good-byes. He didn't know what was in his mind. The hair on the back of his neck had risen in ancestral instinct, but there had been nothing terrifying about the rider, and he felt no fear. Even the horse had been normal, with no outgrowth of wings. He didn't question the sight. It had been too plain for ballucination, Somehow there were horses that could fly without wings-or there were scientific developments that permitted the projection of such a vision. Einstein's work with gravity was either paying off, or someone had found the secret of television in three dimensions-and color-without a receiver.

color—without a receiver.

But the purpose of either eluded him.

"Valkyries," Lee said, sliding into the car. "Or that's what our ancestors would have called them."

Leif glanced at him sharply, "You don't seem surprised."

"Why should I be? I've seen them before." He grinned, too easily, but his fingers trembled a bit as he

reached for the cigarette lighter. "It knew better than to tell you, before. But when I got this stuff in my chest, two of them came swooping down, yelling out that song of theirs. If that bomb hadn't carried me about six feet into the rulend church of former priest tell me the decay of religion was loosing the old demons. He figured they were genuine valky-

"What do you think?" -

"I think it's a good idea not to think of them. Either they're what they seem—or they're a good trick by someone or other. But I've seen enough not to make up my mind. I ... just don't like baving them follow

me here and stare that way."

Leif nodded, and reached for the starter. Before he touched it, the back door opened, and Laufeyson's voice

reached him.

"It's still easier not to walk in the Fimbulwinter, Left. With your leave, I'll return with your Castlers I'll.

I'll return with you. Greetings, Lee Svensen."

Lee had swung around at the voice, and now his words were surprised. "De Nal! I thought they'd got you. Lelf,

de Nal was one of my company in the Legion, the last week I was up. How'd you get here?" Laufeyson—or de Nal—chuckled. "I was sick of their type of war, Lee. When the bombs dropped and covered

me in the mud, I played dead. Now I'm a deserter."
"What about your friend—the big, black-bearded guy? He must have

black-bearded guy? He must have been right where the big one landed." "Jordsson escaped with me—the same manner."

Leif let them talk of the Legion, forcing his mind off this further puzzle. Their talk soon petered out to nothing, since it was obvious that they had little in common beyond the same service, and the car was silent. the howling of the wind. The blizzard was close at hand, oh-

viously, and the snow was already inches deep and beginning to pile up-Driving was something that required Leif's full attention, and he was grateful for it. Even with the headlights, visibility was had, and he was forced to a crawl. Lee motioned questioningly, but Leif never felt happy when his brother was driving, even under ideal conditions. He went on, Judging as much by the feel of the ruts under

At that, he almost overshot his own entrance, until he heard the deep harking of Lobo. Then he swung in, bunting for the road, and started up it, just as the dog leaped toward them in the glare of the lights.

"Damn! I thought you said Lobo was chained." Leif nodded, scowling again, "He

was, 'Here, boy!"

HE REAGHED over to open the back door, but the dog growled uncertainly, the hair rising on his

back, and sidled away. Laufeyson grunted, and the dog lifted his muzzle and gave vent to a long, uncanny bay, "Your Lobo doesn't appreciate me."

Laufeyson said. "There are times when the dogs don't, and the smell is still fresh on me. Let me forward, and you come back, Lee, hefore we all freeze." With the switch made, the dog

crawled reluctantly in with Lee, and Leif drove up the long driveway. "You might look at his collar," he told Lee, That's what I'm looking at. The

chain has been smashed, as if someone took a sledgehammer to it. No. darn it the links are half mashed, half fused. You'd think a bolt of lightning hit it, Here."

Laufeyson took it from Lee and swered it. held it where Leif could just make it out. The description was proper. It did the voice at the other end, but it ob-

look odd. With the neighborhood except for the beating of the snow and worried silly ahout Lobo already, it would mean trouble if someone had seen him, and there was no way of knowing how long the dog had been free. He wondered who had done it, hut there was no way of telling,

The automatic door on the garage had frozen shut, and Lec had to work it by hand. Then they were out, and into the warmth and brightness of the house, Leif leading Lobo in, and Laufevson following behind them. The man glanced about curiously, and the

the wheels as by what he could see. wrinkles around his eyes deepened. "Better than being tied over three rocks," he commented, dropping into

a comfortable chair, For a moment, he reminded Leif of a great cat resting in self-satisfied comfort. Lee had brought down the whiskey

and was pouring a shot spiece. Laufevson seemed to hrace himself, but he downed it and his grimace was contented. When Leif came back with coffee, he gave it a disgusted look and refilled his glass with the whiskey.

Unconsciously. Leif pulled the neryour dog closer to him, rubbing the great, wolf-like head, "At least, if the storm keeps up, the fools will have time to cool down. Wish I'd been at that .meeting."

"It will .let up for an hour or so, shortly," Laufeyson stated, Rive minutes later, the wind died

down, and the outer air turned crisper and colder, but the snow stopped falling. Lelf east another doubting glance at the red-hearded man, but he was holding his thoughts in careful aheyance. Too much in one day needed time for digestion.

.It was half an hour when the phone rang, startling Laufevson out of his relaxation. The .man caught himself and settled back, even as Leif an-

There was an attempt at disguising

viously belonged to Summers. "Svensen? Just a friendly warning. The men

are getting together . . . " "You mean they're out to get Lobo, Summers?"

The disguise dropped, "Yeah, 'that's right. Leif. Now I didn't want anything to happen to you. There's been another killing, over at Engels. And I figure maybe if you take care of things first "

Leif hung up, swearing, But before he could get back to his seat, the phone rang again. He growled into it, then turned to Lee, "It's Gail-she

wants you." "Yeah, honey," Lee answered, holding the receiver away from his ear, calming her down, "Yeah....Ummhmm . . . Okay, we'll take care of it. Don't you worry. Nah, nothing to

it.... Sweet kid. Thanks, See you." But he was frowning as he faced · Leif. "Any weapons, Leif? Gail says the vigilantes are out for blood-Lobo's or ours, and they seem to want both. Drat it. Lobo couldn't bave gotten to Engel's place and back, but we can't prove it. Damp these crazy fools-a little fear of hunger, and they go nuts."

T EIF HAD a rifle, but the last shell bad been used on a hunting trip a month before, and he'd gotten no replacements. Lee grinned wryly, and was gone, to come back with an automatic and several clips. He threw them at Leif.

"You take this, I'll get an axe, How about you, de Nal? You with us?" There was no question between Lee and Leif as to what must be done. Loho had been in the family since Lee had brought him back from

Alaska as a pup; he belonged. Laufevson came to his feet gracefully, suddenly looking larger, than he bad before, "I'm not unfamiliar with an axe, if you have the double-bitted ones. Do you have one?

A minute later, he was swinging it about, testing the balance in the shed. Overhead, there was a dull thunder of hooves, and a sound of singing. The red-beard looked up, grinned at Lee. and made another practice swing,

"They gather for the feasting, And one is yet to come."

One did come, almost on his words,

The door flew open suddenly, bouncing on its hinges, and a buce bear of a man was through it before the rebound bad closed it. His face was humorless, broad, and stronger than any face Leif had seen. The eyes were dark, and seemed to flash in the light of the overhead bulb, while bis black beard jutted from bis chin like a flag. There was a feeling of sheer power about him that seemed almost a solid

aura. "Jordsson," Laufeyson told Lelf. "And a handy man in a fight, though he may bore you betimes with the telling of his deeds."

A huge, short-handled maul in the newcomer's hand flashed up, but the man apparently was used to Laufeyson's humor, even though he obviously could not share it. "The nidderlines come, and Nikarr has the shield maids out. He grows impatient."

"And you grow wordy, as I feared, More, and all will be shown,"

Leif stared at Lee, and saw the same doubt in his brother's look. Something stirred in the back of his mind, trying to make sense out of the words. But it was interrupted as the sound of cars coming up the driveway struck their ears. Without a word, Jordsson, Laufeyson and Lee all moved out toward the lane. Lee turned back to cut on the bright porch lights.

"Shows them up, and helps blind them when they try to see us," he told Leif. "How do you feel, son?"

Leif managed to grin, but his beart

wasn't in it. These three professional heroes might think this a small business, but he didn't like the idea of an attempted lynching by his neighbors. A week ago, he'd have laughed at the idea, but now be was almost sure it amounted to that. He could feel the sweat gathering under his armpits, and

glanced at his hands, and noticed that they were trembling. Lee tapped him on the shoulder. "Forget it. You're not going through anything I didn't feel. These things take experience, son. You hang back until you get the drift: Hell, a mad

crowd can't shoot, anyhow." "Sure, I should hang back when you belong inside, getting over your wounds, and when two strangers are

wants to get." It sounded good, but he couldn't feel the words. It was all incomprehensible so muddled that he wasn't sure whether he was a coward or not. Well, he'd envied Lee bis casual adventuresomeness. Now he'd find

whether he liked it. But already, be knew he didn't. THE FRONT car stopped just

half-way up the driveway, and men began niling out, moving purposefully up the road toward them. Someone yelled, in a voice that sounded like Faulkner. But all wore kerchiefs over their faces, or pillow-slips with holes chopped out. Inside the house, Lobo started barking hoarsely, and the sound touched off the men, who

As the only man with a gun, Lee jumped ahead. He started to yell, caught his voice, and finally got it out, "All right, stop where you are!"

came boiling forward.

"You gonna give us the dog." "Come and take him!" It was Lee's voice then. "There are thirty of you. We'll save ten for your wives."

"Ho!" The roar from Jordsson was an approving one, and he and Laufeyson moved up to flank Lee, putting

Leif behind them again, A sudden shout greeted the appearance of the red-bearded man, "Hey!

It's him-the dirty traitor! Telling us we should take action and then ratting his legs seemed to melt under him. He on .us. Get him!" Leif tossed a glance at Laufeyson,

but the amused smile was still on the man's face. He stepped forward and began calling out names-including that of Summers-apparently without error.. Even as Leif realized nothing could infuriate them more than piercing their disguise, they began pressing forward. "Ho!" Jordsson's voice rang out

again. like a clan of thunder, and the fighting for me. I'm the man the crowd maul left his hand in a savage sween. Something splattered out on the snow. and the mau! seemed to be grahhed by someone and tossed back; it landed squarely in Jordsson's hand. Leif noticed it abstractly, even while his eyes stayed rivetted on the beadless thing on the ground. The automatic fell from his hands. His stomach heaved, hut his throat was too constricted to cooperate.

The crowd flinched, and a few in the front leaned back, but the pressure of those behind was too great. With a strange, animal sound of sheer fury, they charged forward. The three beside Leff were moving to meet them, in spite of the guns that were appearing in all bands

Leif bent to recover the automatic, and something whistled by his ear. Realization finally penetrated that it was a bullet. He stood there, stupidly drying the automatic and shoving it into his pocket aimlessly, for another second. Then instinct seemed to take over, and he leaned frantically after the other three, who were already up to the crowd, too close for the use of

guns. In front of Leif, a man was

clubbing at Laufeyson's bead with a rifle. Lee's axe swept around, leaving a gory trail, and Leif grabbed the rifle before it could drop from the falling man's band.

upright.

There were axes and knives in the crowd too. Even as the barrel of the gun fitted into Leif's hand, he dropped it, to grab desperately at the bandle of an axe swinging down toward him. It grazed his arm, shredding off leather from his coat, and he was down with the swinger, being trampled.

Two legs reared over him, and an axe chopped expertly down. The band at Leif's throat went limp, and the axe came free in bis grip, just as Laufevson stooped and vanked him

A PART of ms man wardice wondering about his cowardice PART of his mind was still or lack of it, and another detached fragment was fighting at the sickness he could feel all through him. But the bysteria of the crowd and the ferocity of these former neighbors had entered into him. He swung out underhand, feeling the axe cut through the leg of someone before him, and moved up beside Laufeyson, who was now separated from the other two.

- He still couldn't kill deliberately. but maiming and crippling seemed almost as effective. Things became a red haze in front of him for a few moments. When it cleared, he could see most of the attackers retreating wildly. They had bargained on a lynching with a little danger, been swept into something more vicious, and were now losing the frenzy in the face of real menace to their lives. He glanced about quickly, spotting Laufeyson and Jordsson.

Then be saw bis brother on the ground, with his blood running out over the snow from a great gash

through his abdomen.

Lelf jerked forward, just as Lee lifted himself to an elbow and let out a sudden warning vell. But it was too late

From behind him, something struck

sharply against Leif's back, sending him twisting and reeling. He tried to come around and bring up his axe, but the man now facing him bad already raised the big corn knife for another stroke. It glistened in the light like a dripping sword, and began

chopping down.

Leif jerked sidewise, trying to throw himself back and away. But there was no time. The blade came down. inexorably. It whistled by his ear, hit into bis jacket, and went on through, Pain hit him as the muscles parted and the collar-bone splintered. He was falling now, the knife dragging out of bim. He started to shout, but his voice was a burble, and there was the salt of blood in his mouth.

Laufevson's arm was suddenly under him, just as a shout went up from somewhere near.

Wild singing was coming from the air above, and with it sounded the thunder of hooves. An object flashed down as the pain in Leif began to sharpen and become unbearable. It separated into a big woman on an immense horse, dropping out of nowhere. Everything was turning into a grey mist, but consciousness had not left entirely. He felt her hand clutch his hair, felt himself lifted with a single beave of her arm, and dropped across the shoulders of the horse. Then the wind was whistling past

him, and be could sense the earth falling away. Behind him, the song suddenly rose to a strange shricking set of tones, and they seemed to twist crazily. Rainbow spots merged into great bands and seemed to quiver through Lelf's whole body, blotting out the pain.

The horse was laboring now. Its

hreath came in short, hard gulps, and, the huge hooves seemed to slip and, slide. Again, the rider urged her mount onward, while the rainbow hands quivered, tightened, and relaxed. Telf felt the sweat from the horse begin to soak into him, stinging sharply as it worked into his wound, fitting the

pain to new heights.

Again the horse strained, and something seemed to give with sticky reluctance. The pattern of the rainbow
arn together, heating almost audility.

The horse seemed to breast some sort
of a rise, and his howes settled again
into the steady pounding, while the
woman's shout turned hack to the sone

woman's shout turned hack to the song he had first heard. There was a violent wrenching that threatened to tear Leif apart, atom

hy atom, and the rainhow colors poured out in a wild final hurst. Then all grew quiet, Blackness closed over Leif mercifully.

CHAPTER III

THE SOUND of distant metallic clashing and the shouts of men reached his ears next, with no apparent passage of time. Left stirred, before remembering his wounds. But the pain was gone, and time must have passed. He was obviously on some sort of hed, though-the usual hospital small was lacking. He opened his eyes and hilluked them. The darkness remained complete and total.

There was a sudden stirring beside him, and footsteps. He lay quietly, afraid to move and find how serious his wounds were, wondering why the lights were out.

"The trance still lasts," a woman's soft voice said. A hand-ran over his forehead caressingly, and Leif could feel the hair being brushed from his face. The fingers remained another moment, cool and with an odd tingle to their touch. "He's slim for a hero, as

nd. Baldar was—and comely, too. He nd. looks.—gentle, perhaps, kind'...." int: The lusty answering laugh was ds amused: "Careful, Fulla. Such words eif' are odd in a virgin of the Asynjur.

Remember Freyja's mortal husband."
"Nonsense, Reginleif." But there
was confusion in Fulla's tone.

was contusion in Fulla's tone.
"Though it has been a long time since
a mortal joined us. And the Aesir...
Nonsense!"

The other laughed again, but dropped it. "He was trouble enough. Carrying him through Bifrost was almost too much for even the loan of Ona's Hoof-Tosser. The borse will be useless for a week. Let's hope he's a real herserker with the knowledge Asa-Odin wants. Surtr's hot hreath is al-

most on us."

There was the sound of footsteps-leaving, and her voice died with distance. Left made little of it, and wanted to make less. Baldar, Aesir, Odin—they were dead myths and non-snee. He must still he delirious—but

there had been the valkyrl "Biffrot has hurned your sight, Diff Swessen." He hadn't heard the bean approach, but the sudden voice was that of Laufeyson, and without his usual sardonic humor. "Here, take my hand and make your eyes follow the fiel of its motions. You'll need he had been supported by the some small skill at sleight, as has heer sold. Nom-hy Torowood's motion, this matter, make right; speed mioutes, and man, still mortal, gain motions, and man, still mortal, gain motions, and man, still mortal, gain the still still the still the still still the sti

The words were a chant, and the worked The room sprang into sudworked The room sprang into sudties aged beams of the ceiling. The room
was huge, with hard wooden hunks is around it; covered with bear-skins; weepass of opinitive design decorated to the walls, and the light streamed in from windows of oiled wellum, Eustreys from windows of oiled wellum, Eustreys and the streams of the ceiling.

son stood over him, wearing a helmet with spike and wings and clad in heavy mail, like a scene from a messy production of a Wagnerian opera.

heavy mail, like a scene from a messy production of a Wagnerian opera.

It was no bospital! Leif's eyesierked to his shoulder. There were no

bandages or open wounds. Only a slight red scar showed. Laufevson nodded. "Asgard—the

bome of your ancestor's gods. And you're whole; going through the dimensional bridge of Bifrost revitalizes the body until it can repair any damage. We're myths, Leif—but myths with sharp teeth. To convince you—what language am I speaking?"

LEIF, COULD remember the English words for "myth" and "dimensional" in the speech, but the rest —he couldn't place the sounds, though they might have been Teutonic, in

origin.

"We can't read minds here, but any vocalized words carry their meanings to all—such is the nature of Aszard.

Will you believe?"

Leif shook his head, still uncertain.

Something was wrong, but be couldn't accept the other's explanation so quickly. Laufeyson frowned.

"No matter—you"l have to believe. Afready Fulla returns. Listen! Play dead, but remember Odlin is stubborn and sometimes a fool. We were sent for Lee, and only I chose you, instead. To them, you must be the berserker, the bero who osud hold back a score in blood-rage to save a friend, as was seen from Odlin's throne. Play the part and be surprised at nothing. Odlin's rage is not pleasantly.

Steps sounded from outside then, and Lauteyson was suddenly gone. In his place, a leaf drifted on a sudden wind, to blow through the doorway.

Leff stared at it. Delirium or not, be "It was only c was suddenly sure that this was the time to follow orders. He drooped slightly over the

t back quickly, closing his eyes and blanking out all expression.

"Still in a trance," Reginleif's rough voice said. "It should have been sone by now."

Fulla's band again rested softly on his forehead. "But nothing goes right since the awakening. Even the applesPerhaps appointing me in Idunn's place was a mistake; the tree responds

place was a mistake; the tree responds to nothing I do. Well, he must be revived, Reginleif."

Reginleif tittered hoarsely. "I've

revived enough heroes, Fulla; and Hoof-Tosser needs a rub-down. You do it—since you want to, anyhow."

Leif opened bis eyes a crack, just enough to see the bacom woman leaving. Fulls was moving across the room toward bim health and supple, her hair long and golden, bound in the back by a curious metal crown of the same color. Her face had the beauty of a type sometimest called savet, with the color of the same color. Her face had the beauty of a type sometimest called savet, with the color of the color of

There was hesitation in ber movements as she touched him this time. Her arm moved under his head, while her other hand rested on his chest. And suddenly her lips were on his, full and warm.

Leif might have had too little experience, but he hadn't been a total loss as a man. His arm moved automatically around her, pulling her down. For a moment, she permitted it, her band moving to his shoulder and ber lips responding. Then her breath caught, and she sprang back, blushing furfocusty.

She looked better to him with his eyes fully open.

"It was only customary—to awaken

a hero entranced...." She stammered slightly over the words. Then her lips became determined, "But you were revived before. You tricked me!" The delirium was definitely taking a turn for the better, Leif decided,

and the unreality of the situation cut off the last of his inhibitions. "The neatest trick of the week," he

hand. She struggled, half-heartedly, Halfway to bim, she gave up and came to meet him eagerly. His grin vanished, and he was briefly sbocked at his own response. Something in him gathered itself into a ball and burst. He was only conscious of Fulla and the need to be near her, to gather her more

"Odin summons!" A boarse croak announced it, followed by the caw of a crow. Fulla sprang back from Leif, the red of her face rushing up and disappearing into whiteness. Leif followed her eyes, to see a black bird sitting on the shoulder of a shaggy

tightly to him-

grev wolf.

The hird regarded him steadily. "Odin summons the Son of Sven to the Thing, Let Fulls being bim,"

It cawed again, beat its wings, and was off, with the wolf loping after it. Fulla avoided Leff's eves and began pulling a belmet and corselet of mail

from the wall. "Put them on quickly. The Alfadur is impatient these days, 'And ... we'll forget this folly."

HE WAS scrambling into the odd get-up, finding no time to answer. He had no intention of forgetting, nor, he thought, did she. But be followed her out quietly. The building sprawled over acres of ground, low and massive, with door after door in the front. Other buildings lay around it, some higher, but none over four stories. Most had been gilded once, but now only faint flecks caught the sunlight. Asgard needed renairs hadly.

The land itself was more impressive. Deep blue skies went on with no clear borizon. A bigb wall cut off one side and a forest lay in front. In all other directions, the greensward of rolling plains continued on and on, soft and springy underfoot. It might admitted cheerfully, and caught her have been a well-kept lawn.

They beaded for the forest, Then, as they moved away from the buildings, he saw the source of the clashing sounds. The field had been worn down to bare dirt for square miles. and it was covered thickly with men in mail. Some beld double-bitted axes. others spears, and most were equipped with broadswords and shields.

As he watched, a warrior not fifty feet away swung at two others, lonping off their heads with a single stroke. He wined his forehead complacently and went looking for more trouble

But Leif was beginning to remember his myths. These would be the einheriar, the heroes the valkyries brought back to Valhalla to fight in practice until needed at the Ragnarok." Odin made them whole each eveniog. so a little head-cutting didn't really

matter. "They look dull and sluggisb," he commented, following Fulla.

She nodded, "Most are, We caught the vital force at the moment of death. but the white elves' false flesh doesn't hold it well. And to bring back force and body together is ... well, you should know how difficult."

Leif looked at his body, Apparently, it was bis body, and not some ectoplasmic stuff. It didn't feel ethereal as he watched ber moving abead of bim. They crossed a stream on rocks and entered the woods through a well-worn nath. Then he caught her again, drawing her to bim. She responded briefly, before drawing away. "We'll be late," she balf-whispered.

"The Aesir are assembled at Yggdra-

sil even as we talk now."

They were, as Leff: saw a few minutes later. The tree was a huge sha, specading out the a cancy over, them, its top tangled with others, around it. Oddi sast in a hard clair, recognizable by the wholes at his deep the same this shoulders, and the one eye that stared gumly out at the assembly. For a moment, Leff lest pity at the sight of the bowed shoulders and the door and frustra-

tion on the god's countenance.

From somewhere, Laufeyson appeared: "I'm to sponsor you."

Fulla drew back hastily, making a

sign with her fingers. "Then are the Aesir mad; Loki. Son of Sven, the air here seems no longer sweet, and I'm wanted. Guard yourself against the Evil' Companion."

She was gone, but Loki was chuckling in amusement.

"Who else?" he asked "Surely you're not surprised to find who I am. Umm, I see you recognize Odin. Vidarr and Vali, his sons, are beside him; they're to live after Ragnarok, and I suspect they welcome it. Then Heimdallt; who'll oppose anything E wish..."

He went on, but Leif was paying only meager attention. He was remembering tales of Loki's treachery; Fulla's warning wasn't unfounded, they indicated. But he had no choice now. He followed Loki, the son of Laufey, or Nal. Odio glanced down at him, while

out garacter own at min, where the cold face of Odin's wife, Frigg, refused to see him. Odin motioned, but it was for Fulla. She came up with a chest, and Odin pulled out a small, green apple. He nilhbled at it, swallowed, and passed it on; the hit-terness in his voice might have been from ulcers.

"Phasa Are we to gain our youth and strength on such as that?" He

belched unhappily. "And not even enough of those Loki, where is my son Thor?"

"Oki-Thor has not returned. Perhaps he seeks more heroes." Loki's voice was humble and apologetic, but changed to relief, as he spoke sidewise to Leli: "We're in luck there. Thor would prohably know you and

have us both cast into Niflheim."
"And the hero?" Odin asked.

FEIF FOLLOWED him through the moh; noticing the stares directed at the trousers under his mail, Loki's voice suavely began the tale of how they'd tried to get their man in battle. to be defeated by the church. He toldof following, of the tricks to arouse the neighbors, and of the hattle there. Leif noticed a skillful blend of his own part with Lee's. He also put it down as a count against Loki that the wolf had been Loki's disguise. Anparently men could only be pulled over Bifrost when they were dead or dying -and by tradition, they were supposed to get their wounds in combat. Odin listened impatiently until it

was finished. "Little enough, hut I suppose it must do. It's an ill' age when men turn to women. Still, if he has the skills they've used to replace their waning courage, we can use him. Lokl, you sponsor this Son of Sven against the Ragnarok?"

Loki lifted his hand. Beside Odin, the thin-faced Vali and the fat Vidarr turned quickly and began muttering. Odin cut them off, his shoulders sagging further.

"What more can we do?" he asked almost querulously. "The times are mad, and we grow mad with them. If this, here of Loki's falls us, we can be no worse off, and you may, have the two of them for your sport. Son of Sven. step forward!"

"We're in luck," Loki began, But

a sudden roar stopped bim. "Hold!" The roaring bellow came

the body of Lee!

from the rear, and Loki swore hotly. The huge figure of Jordsson-obviously Thor-came jostling among them. At his heels ran a tired, panting dog that Leif recognized as Lobo. In the god's arms. Thor was carrying

"Hold!" Thor roared again. He dropped Lee with surprising gentleness onto the turf and swept his eyes back over the group, searching, Loki had pulled Leif back quickly, losing them in a thicker group. Thor

scowled and faced Odin again, "Father Odin." he announced. "this is the hero, the real Son of Sven, I denounce the other as an impostor, a coward and as great a knave as

Loki, I demand justice!" His eyes swung toward Helmdallr, who stopped polishing his fingernails

against his thighs long enough to point to Loki and Leif. Then Thor turned toward them, reaching for the hammer at his side.

CHAPTER TO

ODIN'S VOICE took on a sudden note of command as he cut through the confusion, "Enough, Thor! This is a judging place, and these matters need thought, How comes this man without a valkyr to guide him?"

Thor's in patient hand dropped slowly, and Loki breathed a sigh of relief as he began dragging Leif cautiously forward. Thor's anger was obviously still hot, but he was trying to control it.

"There were no valkyries after Loki befuddled them into taking that one," He jerked his thumb contemptuously toward Leif. "Reginleif and the others went off, leaving me with the hero dving at my feet. I carried him through Bifrost on my back, How else would it have been possible?" "And the dog? Since when is Asgard for beasts?"

"Two of the nidderlings were killing the animal when my hammer Mjollnir found them. But he's a stouthearted beast-dying, be still crawled after us. Over half the way be came on his own. Should I have refused to help him when Loki's dupe rode here on Hoof-Tosser?"

There was a clamor at that, and even Loki's face showed admiration. "Impossible for even our best horse." he muttered to Leif. "But when Thor's angry, he'd carry twenty through Bifrost. It will sway the Aesir to his side, though."

Lelf had almost stopped thinking in the chaos of events, but be caught at Loki's shoulder now, "I'm calling it off, Loki. I won't fight against my brother!" Loki grinned, "Noble, ch? Don't

worry. Ther wouldn't carry him bere and then desert him. He may not be bright, but he's just, in his own way. Lee'll do well enough, whatever bappens. But unless we win this, we won't. You can be killed, even here, since you're wearing your own flesh instead of elf-shapings. Or Odin can do worse."

. Now they were near the front of the throng, and Loki raised his hands ceremoniously for attention. Thor scowled at him, but Odin nodded slowly.

"A mighty feat, Thor," Loki began, keeping his voice just low enough that the others had to strain to hear. The trick quieted them, "Brazi will make a new poem of it. But a pity. too-since I'd already sent the real hero on. Alfadur Odin, in the confusion of the fracas, it was easy to confuse two who seemed alike. Only by holding back and letting Toor do most of the infighting was I able to keep

them straight," "What!" Thor's bellow was a fresh

shock every time Leif heard it. "You claim I don't know a hero. Loki? Now. hy Ymir...."

Loki shrugged. "Not an unconscious one, Oku-Thor, Dying, men are all alike. No, I claim only that you were too intent on the battle to see all, as I did in my humbler role, Fulla, you were present when he arrived, Say whether my candidate seemed a

coward." Leif looked at ber quickly. But the warmth had gone from her face, and her voice was cold and impersonal. "How should I know, Father of Evil? He was grievously wounded, from the

scars that had still not gone." "And did he cower when he learned where he was, Fulla?" Loki asked, the grin hack on his lips. "Or did he perhaps seem eager to join Asgard's company? Surely you would know of

that " She flushed under Loki's gaze, and her eyes swung to Leif. Then she turned away coldly, her chin raised a trifle too high. "He was hold enough to be your twin!"

She came by Leif then, not a foot away. He reached out, but she swiveled and passed without looking. "Oku-Thor, your hero needs reviving, and since no valkyr has volunteered. perhaps my help would be welcome."

CHE DROPPED to her knees on the turf, lifting Lee's head in her arms. Leif swore-she needn't have put that much enthusiasm into the kiss. Then he hated himself for thinking it while Lee was in need of help -and swore again as Lee opened his eves and grabbed for her. Frigg's cold, disapproving cough finally broke it up, though, and Fulla stood erect. staring at Leif with a thin, chill smile on her lins.

Lee shook his head and came to bis feet, looking at the group around him, He frowned, shook his head, and sud-

denly laughed.

"I'll be damned-Aseard! Thor. Odin-and Loki de Nal." He shook his head again, staring into the crowd. Then his face cleared. "And Leif! Damn it, son, I'm selfish enough to be glad they got you, too," Loho had spotted Leif at the same time and was leaping up and down, trying to lick his face. Fulls carefully moved to the other side of Lee, as Leif came up. Thor muttered unhappily as the brothers came together, showing their complete similarity. His eves were doubtful as Loki joined

them with a grin on his lins. .. The puzzled mutter of the group around reached Leif's ears dimly, but his thoughts were churning husily over the fact that Lee could take everything in at one quick glance and seemingly enjoy what he found, Apparently, he could also sweep Fulls to bim in less time. But Leif's throat was oddly constricted as he graphed Lee's hand briefly. "You look a lot better than the last view I had of

you, Lee."

"Two beroes, both alike, both wounded," Loki commented loudly, while Thor regarded him with a mixture of distrust and a strange, begrudging respect. "Yet names have power, too. Should the old blood not be stronger in one named Leif?"

Thor's grunt told Leif that it was a telling stroke; the gods were apparently better at tradition than logic. He was trying to fill Lee in on the essential facts, but be stopped to stare at the crowd.

Heimdallr frowned and stopped polishing the metal on his corselet. The god's fatuously self-satisfied look sharpened as be stared at Leif, "Two heroes, Loki? But my eyes, which can see the grass grow at a thousand miles, tell me your bero bas one wound on his back. And I think it was

the first wound." Loki's grin slipped for a second, and Leif felt his palms begin to sweat. The seriousness of this was slowly dawning on bim. He rubbed bis hands against his trousers, bringing them up against something hard in his pocket. The automatic still rested there. He

reached for it, even as Loki caught himself. -"Heimdallr's eves see more than rumors this time, then. Of course it was first at his back that the nidderling thrust-because none dared to

face him."

But the hesitation had been too long, and the face of Odin was sharpening into determination. Surprisingly, Thor looked uncertain now, still muttering. But the doubts in the others were going.

Leif caught himself. Then the automatic was out and pointing toward the smirking face of Heimdallr. "If" Leif swallowed, caught his

voice, and somehow managed to stiffen himself against a nicture of Lee in the same situation. "If you're to blow the horn that gives Asgard notice of Ragnarok, Heimdallr, you'll do it better without a hole in your head! Or haven't you seen what one of these can do?"

He pulled the trigger as he spoke, and the report lerked every god up. like purpoets on strings. The bullet plowed into a knot in the tree, showering splinters and dust down at Heimdallr, and cutting the smugness off sharply. Leif was grateful for the target practice be'd had with Lee whenever his brother was home. "The next goes through you!"

"No!" Thor's hand leaped forward, closing around the gun and lifting it

Svensen, but Heimdallr's Gjallar-Horn is needed."

LEIF TURNED, expecting the big the god stood calmly, regarding bim. Heimdallr let out a sudden shout, but quieted at a word from Odin, and turned to confer quickly with Vali and Vidarr.

Then Loki was speaking again. "You wanted proof-and you have it. As was shown from Odin's throne, the beroes now have new weaponswhich we need. Who but a hero would have sucb-or can Thor's bero produce such a weapon?"

"You know damned well I can't," Lee said quietly, "But . . . ,"

His arm chopped down abruptly on Thor's wrist, and his other hand came out to catch the automatic. Thor blinked, scowled, and gave a sudden booming chuckle of approval that snapped off as Lee tossed the gun to Leif. With another abrupt twist, Lee had a two-bitted axe from a bystander

and was moving to cover Leif's back. "A hero, as all can see," Thor shouted toward Odin. Loki snorted. "A hero-when Thor drops the weapon into his hands! It

proves nothing. Can your hero make weapons, Oku-Thor? We've heroes enough in Valhalla-we need skills." "What're we supposed to do?" Lee

asked in a whisper, "Make guns and ammo for them?" Leif was careful to hide his line from Helmdallr. The god might be a popinjay in some ways, but his eye-

sight was obviously a lot better than average. "Seems so. I suppose we could take some kind of a stab at it. I remember some of my college chemistry, and any farmer has to know how to handle tools. We might make flintlock carbines for ball shot."

Thor was standing uncertainly, from Leif's hand. "A good play, Leif - while Odin looked at him expectantly.



There was a rope and chunks of wood flow from the tree as the build strack it...

to Lee. "Can you, Lee Svensen?" "About as well as you can," Lee'

answered: "Using guns and making them are two different things where we come from. Besides, it takes ma--

terial. You might ask my brother." Odln turned questioningly to Leif. who shrugged. Maybe he could make weapons, but he had no idea of bow

long it would take here, nor whether he could even get the materials needed. Besides, he still couldn't trust Loki too far: maybe Thor would take care of Lee, and maybe not.

But Loki had moved in front of him, one hand casually behind his hack. He moved it quickly, while addressing Odin, "A difficult task. As Lee says, it takes material. Fortunately, I brought such material for one gun only with me-and at great effort, too. Leif will now make such a gun for all to see."

The band behind his back moved suggestively, and Leif glanced down to see an automatic lying in the god's palm. He seized it as Loki moved aside. "It might be best to conceal your motions," Loki observed softly. "At least, pretend you're having some difficulty.

Leif handed the original gun to his brother and bent down, hiding his hands under his helmet. He had no ldea where Loki had picked up the gun, hut it seemed that the sly god was prepared for most emergencies. Finally he straightened, the second automatic in his hand. Loki's lips were close to Lee's ear, but no sound reached Leif. Lee was grinning broadly, but his face sobered as Leif came to his feet.

Another clamor came from the crowd, and Odin sagged back into his seat, nodding, but still not sure. At the side. Heimdallr was whispering to

Vali and Vidarr. Then Vall's voice cut through the noise. "Father Odin, it would seem

Finally the black-bearded god turned that Loki spoke truth for once, and that Leif shall be the man to win the Ragnarok." Vidarr was nodding, speaking quick-

ly to Odin, while the crowd set up a fresh shout. Heimdallr was on his feet, yelling at Vali, but the crowd noise covered his words. Finally, Vali caught him, making frantic motions until he sat back again, scowling. Then, as quiet slowly came, Odin turned to Leif.

"We bave decided, then, Leif, Son, of Sven. We distrust much, but we have no other choice. Prepare the weapons against Ragnarok and you shall have any one request within our not inconsiderable power to grant, Betray us or give us further cause to doubt, and Niflbeim shall claim you. By Ymir, we swear It. As for the other-"

"As for the other," Thor's voice broke in heavily, "I bave brought Lee Svensen to Asgard under my safe conduct. Does any question the honor of Thor?" Obviously, nobody did, "Then Lee

shall lead the einheriar with me." Thor finished. He started off, motioning for Lee to follow.

"Be seeing you, son," Lee told Leif. He went off after Thor, whistling snatches from the Ride of the Valkyries, winking at Fulla as he passed her. She turned to follow:

BUT LOKI'S voice reached out, all sweetness and honey now, "Good Fulla, as you can see, I may be busy in conference. Why don't you show our hero to the workshop of the dwarves, since it's there be'll work? And you might tell them they're to do whatever be says."

Fulla's protest was stopped by a nod from Odin. She came up to Leif then, jerking her head for bim to follow. They went back over the same lane through the woods. She quickened her steps, marching along, head high, not looking back to him.

Leif caught up with her, and spun her around. "What's going on? Just

because Lee's around, you don't have to treat me like dirt!" He tried to pull her to him, hut her hand came out, smacking sharply against his face. Lee would have

second Leif considered it. But the look in ber eves was too much for him. He stenned back. "Dirt I could endure," slie told him coldly, "But a tool of the Evil Com-

panion-a trickster, a false heroeven one who looks like Baldar and. . . . ". He grinned wryly. "Go on and say

it. You haven't forgotten being kissed; any more than I have." . "No. I remember that-to hate you

for it. But don't feel that you've won everything yet, Leif Svensen. Helmdallr saw through your trick."

She was pointing at his hand, and he looked down now, conscious that he was, still carrying the automatic Loki had given him. Then he swore. There was no gun, hut only a short stick of wood, shaped something like one. Loki had tricked them, and Heimdally hadn't been fooled, but only silenced somehow by Vali. Something came to his, mind-Lokils doubts of Vali and Vidarr, who would survive Ragnarok, and might like a false hero to speed it. He swore, and threw the stick aside.

Damn Loki! Leif scowled, wondering just what he'd gotten into. Loki was supposed to he on the side of the giants originally; maybe he was only pretending to go along with the gods. And if that were so, Leif was nicely stuck in the middle, while the millstones were grinding out trouble. To make things worse, be was sap enough to fall for the only girl who'd ever really, appealed, to him, and she bad to

be a goddess, as well as hating anything that Loki touched. . They came out of the forest by

another trail, into rough ground near the great wall; almost at the entrance of a sooty, huge building that ran hack into a hill and disappeared. Fulla pointed to it. "The dwarves are in there, where you'll find them. Modgrinned and gone ahead, and for a sognir!"

A short, ugly creature came out: his face covered with warts, and his whole body filthy-more dirty than the rags that covered bim. He was perhaps four feet high, but most of that was torso and his chest expansion must have been better than sixty inches. He nodded ponderously.

"This," Fulla told him, "is your master. The Alfadur commands that you obey his orders."

She turned quickly to leave, ferking her head aside as she swent past Leif. The little grin on her face indicated that she knew she had him going, and enjoyed that part of it

thoroughly. . It was too much. He caught her by the shoulders this time, and forced her around, pulling her to him before she could draw back her arms. She was kicking and scratching as she came, but he was pleasantly stronger than, she was. She tried burying her face in her shoulder; but one of his hands in her hair forced her head around. Her lips, were thin and hard, Then slowly they relaxed and parted: He pulled her closer still: letting his hand fall from her bair.

She bit bim!

His hands dropped completely in surprise, and she was gone, almost stumbling in a mixture of fury, and embarrassment. The snickering laughter of the dwarf behind her didn't seem: to help. Leif wined the blood off his lip, but he wasn't sorry. At least she'd; remember, him, now!

"You're grawing," Loki's voice said

behind him. He spun to see the god lounging beside the dwarf, grinning. "Fulla needs a bit of taming—as who wouldn't, after heing a virgin for fifty thousand years or more?"

wouldn't, after heing a virgin for fifty thousand years or more?"
""I'm growing sick of it all," Leif answered. "Why should I try to do anything for this cockeyed heaven of yours? I don't even know what's true

and what's fakery."

LOKI SMILED with his lips, but there was no amusement now on the rest of his face. "Maybe we have been a little hard on you. I had to be—I couldn't reason with the Aesir. But don't think you can walk out on us now. Niftheim isn't any fake."
"What is this Niftheim?" Leif want-

ed to know. He bad a vague idea of a cold hell, and no more. Idly, be neliced that Loki's speech sounded leas stodgy now, particularly since leaving the meeting. Or maybe his cars were just getting used to the language, and he was hearing it as he would English. Probably Odin didn't approve of the normal, casual speech.

Loki reached into a bag at his side and pulled out a small mirror set in a frame with a handle. "I horrowed this from Odin's possessions, you might say. It's a small version of the hig one on his throne. A—umm, you'd call it a window through the dimentions nerhans. Here's Niffheim."

Leif took the mirror, looking into it curiously. Then he tried to drop it, but his hands refused to move. Something strained at his eyes, and the sight hegan clearing—showing people people with...with...

The next second, he was vomitting while Loki supported him. The god had pulled the mirror out of his hand, but nothing could ease the sickness that ran through Leif. Finally he quit gagging and sat down shakily.

"That's Niflheim," Loki said, and his own voice held a tinge of what

od Leif had felt. "It's a place where me and go crays, even, since it has two general go crays, even, since it has two does if sized, immovable. The longer you look, the more you can see and that's true even though you or the ones. ... But keep the mirror. You use may need it to see the processes as they are does not use the processes as they are the processes as the processes as they are the processes as the processes as they are the processes as the proces

I know you're no master of the skills we need. I wanted a few experts, but in Odin would have hereos or nothing. So I did the best I could. And if to I made a mess of your plans—"

"Ifi" Leff grunted weakly. "In couldn't go back there if you'd let

me. They'll have me down for sixteen types of crimes, not to mention what will happen to the farm."
"Umm. Well, Thor protects Lee, and I'll try as much for you. When

and I'll try as much for you. When the time is right, perhaps I can visit earth and set matters in order for you. This is the workshop." Leif looked from the crude forge

to the way one of the dwarves held a pice of heated metal in his hands on a stone awril, while another swung and the street of the dwarves had only their hare I hands and mouths as tools. Beside him, one held a crude spass and was lating off flakes of metal with his teth to smooth it into shape.

Loki spread his hands. "They have talents—of a sort. But—"
Leif dropped onto a rock, holding

his head. This made everything just lovely. And if he falled with such equipment—Nifiheim!
"Suppose I win your war with the

"Suppose I win your war with the giants?" he asked.

d Loki shrugged. "Godhead and the b, wench, maybe. And the Aesir will s take over your world and run it their t way again."

Leif had a vision of that. Lord knew, men had made enough of a mess of things, but with the Aesir ruling. hell would really pop. He came to his feet suddenly, but Loki had already stepped out of the doorway.

CHAPTER V

THE WORKSHOP had clianged, later. The armorers had been moved out to a separate building, and the addition of a real force, a

flat anvil; some tools, and a crude grindstone had freed most of them for other work. The arms and armor were better for the new equipment. Inside the caverns of the dwarves,

the rear was filled with equipment of the same kind, but in the front sections there were simply big iron cauldrons and hoppers, joined by queerly twisting lead pipes. Leif stood beside Sudri, his foreman, watching two of the dwarves busily shovelling crude ore into a hopper. As far as he could tell, there were simply two pipes under it, with nothing further to do the work. Yet the iron sulfide ore went in, ran through the pipes, and came out as sulfur on one side and iron on the other.

Sudri clucked sharply and reached forward to taste the sulfur. He ground a lump between his teeth, swallowed, and scowled. He twisted a loop of the pipe half a degree, tasted again, and hurped happily. "Pure now."

Sudri had been picked by Leif as the easiest to remember, since he was the ugliest one of them all. He looked like a maimed frog with severe glandular trouble. His nose was buried in the growths on his face, and the face was little more than a huge mouth. carried on a squat body that bopped about with grotesque joints stuck on haphazardly, The elevation above his fellows seemed to have done him good. though, and there was no question of bis loyalty.

Well, they'd bave gunpowder in plenty, at least, Lelf bad used the Reginleif brought chow over."

dimensional mirror to find and conv an up-to-date periodic table of the elements, after his first surprise at finding the dwarves had a very clear

idea of atomic arrangements. They seemed to make their tests by tasting, but it worked. Now he could get any element or simple compound he wanted from them by telling Sudri what it was.

Leif grinned, remembering their slightly unorthodox method of producing nitric acid. Learning to control the kidneys really meant something

here, it seemed. Then he sobered, and turned back to his private room; lined with lead on the assumption that what would stop: X-rays might stop Heimdallr's vision. He picked up the dimensional mirror glumly, and began staring through it. Using it was simplethink about some place on earth, and there it was. But it had its limits. He could: locate a library, even scan the backs of the books; but until someone

opened the book at the right place. Sudri came in expectantly. "What next, hoss Leif?"

"About half a ton of U-235," Leif told him sarcastically, "Either that or some detonators."

"What are detonators?"

he couldn't read it.

Leif explained as best he could: They'd been mixing small batches of the gunpowder, and they had casings for grenades, since those were crude enough for the dwarves to produce. But getting some way of setting off the grenades that would be foolproof and simple enough for the doney heroes was another matter. He'd figured out ways, but none that the dwarves could follow in production,

Sudri scowled thoughtfully, and Leif shrugged, "Okay, I didn't really expect you to get them. Suppose you send in my milk, instead. About time Sudri's face cleared, and he was gone. Left had found that the tegendary Hefdrum—the goat that gave meal rwas just a plain herd of goas, giving bonest milk before the gods let it terment and mised it with boney for the sickeningly cloying drink they used. And the boar that was supposed to be killed and eaten every night, to be restored by Odin's magic abortowed abortowed to be nothing but a horde of Juli-wild pige running in the woods

behind Yggdrasil.

Boiled pork and mead three times a day! No wonder Odin had ulcers. Leif hadn't found vegetables yet, but he bad been able to milk the goats on the sty. The stream in back of the dwarf caves made a good place to cool it.

THERE WAS a halloo from outside, and Lee came clanking in. He put a platter and bucket on the bench and tossed the big shield on the floor. Met Reguled coming with the choracteristic control of the total control of the control of the total control of the contro

Left told him in clean. He bud more respect for the Ragnards row, having system a good look and and fire gangs and the state of the sta

He tossed something over to Lee that resembled a gun. "Barrel inside that looks as if a dyspeptic caterpillar had crawled through butter. Two weeks' work for a dozen dwarves. I'm still trying to build a lathe, but just try cutting threads on anything with no guide and no decent tools." Lee threw the useless gun aside.
"And even if we get the grenades,
I'm not too sure bow well they'll
work against the giants, from what I
hear. Thor's son Ullr—no, his stepson—anyhow, he's a nice enough guy,
and quite a bowman—he wants to
meet you, by the way..."

Leif grinned, in spite of himself.
i "Here, stop eyeing the milk and help
f yourself. Maybe you'll remember what
s you were saying then."

"Ullr says Odin's getting impatient. He didn't like your not coming to mess with the rest, and now you've been holed up here for months with no results."

They were interrupted by Sudri, bringing with him a bent, grizzled old dwarf whose skin indicated he was one of the stone dwarves. "Andvari," Sudri announced happily. "Andvari, make some detonators for the boss."

Andvari tucked a chunk of flint

into his mouth, followed it with fron dust, and chewed busily. He spat suddenly, dropping a few hundred tiny crystals into his open hand. Sudri r picked one from them, put it into a powder-filled grenade casing, and squeezed the bole closed with his fist.

Lee guided, but Left was used to it.

Lee guiped, out Leif was used to it.

Some day he'd have to find what these
original inhabitants of Asgard were
made of; it certainly wasn't proteplasm. But now he gestured for the
grenade. "How's it work?"

"You throw it. When you want it to go off, it goes off when it hits."

Lee grabbed it up and was out the entrance. A moment later, the explosion sounded, and he was back. "It works. I tried it without and with

works. I tried it without and with thought control. Only works when you mean it to... Look, son, I'm late now. Make up some of these and send them over to Thor's place. It ought to keep them happy for a while. " Sudri looked for Leif's nod, and dragged the old dwarf out after bim. Lee downed the rest of the milk and grunted wearily. "Lord, Im tred! Tossing one of those axes around all

day is work."
"You might try sleeping nights,
then," Leif suggested. Lee slaughed
contentedly and stretched, before
reaching for his big shield. Then he
blinked at the three dwarves, loaded
down with grenades, who came to the
door to wait for him. He shrugged,
winked at Leif, and headed for the
cuttance, the dwarves following duit-

fully.

Leff let the forced grin on his face die, and got up impatiently. If Lee was seeding Fulls, he didn't want to know about it. He'd seen her twice since the day of arrival, but each time she'd turned hastily and gone off cleswhere, without a word-'off was a cinch that Lee wouldn't have been considered to the control of the contr

Outside, the dwarves were husy making greendes under the direction of Sudri, while Andvari sat spitting out detonators. Leff pulled down his amon, stuck the automatic Lee had returned to bim into a gocket, and went to the door. The brightness in the "sky that sibstituted for a sun here was filmming, and the air was cool and pleasant after the closeness of the caves."

Off to the side, barely within vision, be could make out the valkyries and more energetic einherjar pairing off. Beyond that lay 'Thor's sprawing Bilskirnir, the most pretentious building next to Odin's. Lelf grunted as he saw someone walking 'toward it, as

figure that might be Fulla.

There was a sudden barking, coming toward him, and he saw Lobo galloping along, just as the dog

lesemed to see him. The next second, he was heing pounced on, while a wet tongue ran over his face. Leif staggered backwards, grabbing for the dog. Then he stopped.

"All right, Loki, come off it."

THE DOG disappeared, leaving the sly god in-his place, carrying a bundle in his arms. "Either you're getting used to illusions, Leif, or I'm losing such skill at the art as I have."

"Lobo makes a whining sound in his throat when he does that. What's sappened to him, anyway? I haven't seen him in three weeks."

"Nor me in two. He's heen in a fight with Odin's pet wolves, and Thor's patching bim up." Loki chuckled. "Thor's getting a soft spot for the dog. First he carries him over Bifrost, then buys, him from Lee, and now he plays nursemaid. Smoke?"

Leif stared at the eigarette package and did a double-take. His mouth watered at the sight, but be shook his head. "Not here, or we'd all blow up. You know we're making greandes, I suppose? Umm, How'd you set these?"

"I went back to earth to fix things for you, as I agreed. Did you know time is different there—that five of your days go by while one passes in Asgard?"

"I guessed it from the way my watch acted, and what I saw through the mirror," Leif admitted. He was outside, lighting up eagerly as Loki joined him.

"Umm. Some of your neighbors remembered me, and it was a bit difficulf for a time, though they're already passed a law making all preready passed a law making all previous crimes of the winter outlawed. But I'm. not bad at convincing men of tilings. And after the past months, food means more than hate, and your umoney is still good. Twe hired Faulthmoney is still good. Twe hired Faulthit. You're in China, by the way. Ha! A pretty girl, Gail Faulkner... I brought back twenty cartons of cigarettes. A hard babit to break, once it's started."

"Loki, why can't we bring up tools from earth? Cigarettes are fine, but---"

"Metal," Loki cut him off, "It resists the twists of Bifrost. Hoof-Toser could carry you easily, but it fook the help of two other horses to bring

you, because of the metal in the automatic you carried."
"The valkyries come through wear-

ing metal armor."
"That's el'Estiff, not regular metal.
When Odin led us through Bifrost
long ago, it was easier. Then Asgard
seemed down hill from your earth, but
now it is otherwiss. There were nine
worlds connected through Bifrost
hen. Now only Jouthnelem, Muspell-heim, and Nifflerim are easy to reach,
Your world is closing; Vanasheim, Alf-heim and the other two are closed."
Left let it no. Loak's seeme of losic

was stronger than his traditions, and if he said it couldn't be done, then there was no use trying the idea on others here. He puzzled again over the contrast between what mythology he remembered and the facts. There seemed to be a logical solution bebind all the magic, and that might be useful, if he could find it. But it was like the shoes of the valkyries' horses. The elfs had made them, and somehow they could harden the air into a firm roadway back on earth, but nobody knew how; even the few surviving elfs from last an n no longer knew why they worked.

He'd learned a lot from Loki, but there seemed to be too much that even Loki didn't know. "How come Fulla takes care of the tree? I thought..."

"It was Idunn's task," Loki finished, "It was, until the valkyries

at picked up a certain hero who was,
also a fanatic priest of some odd new
ge religion I note you still have. He
er raged first, then quieted down and
turned into quite a poet, as well as
hero. Bragin—be's the verse-cryer—e,
took him in, and dunn was all too willing to be kind to her husband's
guest. Urmm. Most kind. The priest
on the cheet with all the anoles, and

was across in Niffheim, next we knew."

Leif stared at Loki, shaking hishead. He shivered as he remembered his vision of that place. Loki nodded.

as vision of that place. Loli nodded, "I said he was a fanatic Tyr—the one-armed god—tried to follow, but it was too much, even for him. So it was too much, even for him. So of your years. The scent awkneed us when the tree bloomed again, as it does each such thousand years. Odd emembered another time, with a giant named Thjazi—I-dumo blamed that on me, if your myths tell of it—when the apples were lost from Idum's cardesness, so he sent her after the cardesness, so he sent her after the

So Christianity hadn't killed off the Aesir, but only put them to sleep. Apparently a taste of the apples periodically was vital to life bere, thuggh Leif wasn't sure whether it was an actual need or only a habit-forming

"Heimdallr says there's an eagle around," Loki commented idly, lighting a second cigarette. "A huge one. My changes may be all illusion, but some of the giant folk can change form, in time. It may be a spy."

t LEIF SUDDENLY remembered to something. He pulled a little telete scope from his pocket. "A gift for
Heimdallt." Even though Sudri had
shaped the lenses in his bare hands
over the fire, according to Leif's
ketches, it showed a outie clear im-

age. "Tell him it'll triple his sight, and mayhe he'll gloat ahout it enough to stop hanging around spying on me." Loki looked it over and tried it

out. "A good trick. It may make him as much your friend as he can he. But if you're trying to get rid of me, I can take the hint—when. Em ready to! I found and read a rather interesting book on the care of fruit trees in your collection of hooks."

Leff kept a careful poker face,

though it hit him. "So?"

"So I think Fulla is due for a sur-

prise. Strange. We never could get the seed to produce a tree with the same fruit, and now I find that's only normal. But we didn't know shout grafting, though it's too late for that this blooming. Still, it seems there are many things that can be done to better the yield. Well, I'm back to earth, for a little while. Good luck with the tree."

The god chuckled, and again the form of Lobo went off through the dark.

Leif nicked up a sack of chemicals.

a crude spade and saw, and headed out-through the gathering dusk toward the tree. He'd been examining it for some time, and the simples of dirt from around it had confirmed, his suspicions of the trouble. Loki had guessed right, though he hoped none of the others got the idea. They were suspicious enough to kill first and examine motives afterwards.

But it was as nearly dark as Asgard over became as he reached the tree. Against the glow of the sky, he could see the worn old limbs, and the dirt in his fingers smelled wrong to his noce. It was a shame to neglect a fruit tree, and the farmer in bim hurt. Besides, if the gods were to win the Ragnards, they'd need more strength than from green, stunted apples.

He spaded in the fertilizer, which the dwarves had made to his specifications, getting the feel of the earth again. It was pleasant, after the crazy life he'd been leading. He finished that, finally, and hegan carrying water in the leather-sack, washing the fertilizer in. Sometimes lately he even hegan to helieve that the gods should win the war for Earth's good. Afterwards—well, he had one wish. Maybe sometiling could be done with it. And

wards—well, he had one wish. Maybe something could be done with it. And he no longer was sure the gods could take Earth; they were a lot less powerful than he'd first thought. And they were lousy horticulturists! He climbed into the tree and hegan

and the cultivation to error and negations to continuous and the continuous that the continuous that the continuous and the work was less troublesome than he'd expected. At least, the armor protected him from sharp twigs, as he'd thought. He painted tar over the cuts, hausted he brushwood away, and stood back; examining the tree again from the ground. It should lean and placked ground and the continuous that the continuous and its energy, and the ground would nourish it.

Finally, he wrapped the spade and assay in the sack and headed down the trail. Luck was with bim, it seemed. None of the gods had spotted him, and Heimdall; was prohably busy with other things, not looking this close to the center of Asgard.

He turned around a head in the

He turned around a hend in the path and collided sharply with the figure of a woman! Then, as be bent to help her up, he saw it was Fullal

CHAPTER VI

SHE WAS moaning slightly as he lifted ber, and she winced as he started to release her. Then she stood upright, and be took his hands away.

She started to step toward him, and moaned again, stumbling. He paused, irresolute, but only for a moment. The next second, he had scooped her un into his arms and was carrying her off the trail, to a spot where he'd seen a smooth, mossy section a few days before. As he moved with her, she glanced up, and he realized his

face must show against the sky. She jerked a little, before sinking back agains his armor. "What's wrong?" he asked, as he

dropped her gently onto the moss. "It's my ankle, I twisted it. It's nothing-it'll be all right in a few minutes," She winced again as his fumbling fingers found the ankle "No. don't stop. It hurt at first; now it

Lee? Of course, they looked and sounded alike, except that their attitudes colored their expressions. He puzzled over her choice, until the clinking of his armor penetrated his senses. Naturally-he'd left it off since the first day, while Lee had apparently grown into his. She'd guessed by that

"Retter?" he asked.

feels nice, Lee."

"Mmm, Sit here, Lee, I thought you were with Gefiup tonight, She'll be lealous if she finds you're out alone-worse, if she finds you with me."

Leif grinned, remembering Geffun, another of the virgin goddesses. So Lee had been doing all right, even if he hadn't been seeing Fulls. He tried to call up some of Lee's mannerisms. "Let her he jealous then. Who kissed me first, you or Gefjun?"

"True." She slid-downwards, and closer to him. After the unwashed naturalness of most of the females of Asgard, he was surprised to notice that her hair was faintly and pleasantly fragrant, "I began to think you'd forgotten that kiss, Lee Svensen."

wasn't good, being mistaken for another man, hut it was better than nothing. The armor was suddenly hot around him, and he was sweating. He reached for the buckles.

She bent to help him with it, and her hands were caressing. At last it

was off, and she was closer. Her voice was a whisper, "I haven't forgotten. Lee. But even a goddess can't remember forever-one kiss." He tried to laugh as Lee would

have laughed. It sounded hollow to him, and the blood was pounding in his ears, but it seemed that she accepted it as Lee's laugh. "There should he a moon now," he tried to say lightly, as he bent forward, "With that, maybe this Asgard of yours could be heaven."

The moon had nothing to do with it, though, as he discovered. It was heaven-a strange, bitter heaven. He tried to forget that she thought she was with his brother, and failed; but even that hitterness couldn't steal all the pleasure from him. She sighed softly as he withdrew

reluctantly, letting his lips hreak slowly from hers. Then her arms tightened again, and she was pulling him down, her mouth demanding. Her breasts strained tautly against him as his hand tightened on her back, and her body turned slowly, bringing the flat of her hips against him.

"Oh, Leif! Leif!"

FOR A SECOND, there was only the caress of her voice, small and hoarse in the darkness. Then the words penetrated. He jerked suddenly away, freeing her, "You knew me?"

She shuddered, pulling herself slowly up. Leif fumbled for a cigarette. and he could see her face white and tense in the light of the match. Her eyes widened as he drew in the smoke. but it was unimportant to her now. "Had you forgotten, honey?" It Her lashes were dropping as the match went out, her fingers twisting into add shapes. Her voice was tiny and lost in the space around them.

"I knew, Leif. I saw you going this nay—and I started to follow, to watch you and—hate you. Then I didn't want to see you. I went hack—hut I came, after all. I thought I'd never find you! And I didn't hurt my ankle."
"But what about the Lee act, then?"

"I had a plas—I thought. If I met copy our and you thought I took you for Fi Lee...then it really wouldn't count." Is there you can see wen lower, and she the beststated. "I knew how you felt, or it. I thought I dol. And I wanted you to you treason, but if you thought it was Lee I —I liked...combow, it would be all I right for me, then. And you'd be even more miscrable afterwards. Oh, Lift, he

"And then—then I couldn't pretend," she finished. "You could hate me, Leif."

He tossed the smoke aside and turned toward her, "I could. I don't." She sighed, slowly relaxing hack onto the moss. "Fifty thousand years is a long time to wait." She puished the fiair hack from his head, her long fingers lingering and trembling faintlw. "I'm glad I waited, heloved."

DAWN WAS creeping up as Leif tossed the last cigarette in the package aside and climbed to his feet, reaching for his armor. Fulla stirred, watching him, before putting out her hand for him to lift her. "We'd hette he getting back," he told her. "I should have taken your home hours ago."

ago."

She nodded, hut pulled his arms around her again, snuggling against his shoulder. Her cheek rubbed against his arm, and he lifted one hand to the back of her neck; drawing his fingers around and past the lobe of her ear.

Suddenly he felt her hody stiffen. She hegan drawing back, her hand slowly going to her breast, as she

slid out of his arms. "My tree!"

He'd forgotten the hlasted tree, hist he looked now. Seen in the full light of day, it was a bleak sight, with most of its branches missing, and the thinness of its foliage showing tully. Every scar he'd nut on it stood out clearly. Then another gasp came from Fulla, and he looked down to see her staring at the sack dropped on the first living at the sack dropped on the first living the base stellar to the sack starting at the sack dropped on the first living the sack starting at the sack starting to the sac

There was dishelief in her voice.
"You! You ruined the tree—the life
of Asgard! My charge...and I—
I. ..."

He caught her shoulders, pulling

her around to face him. "Of course I did, Fulla. It was dying from thedeadwood, and from lack of food in its soil. I did it hecause I couldn't see you failing your job. Damn it, I did it hecause I was in love with you." "My tseel" She sagged in his hands.

slipping out of them, and falling flat on the most. Her eyes remained fixed of the tree, and there were tears in them, while sohs slowly began to wrack her hody. "And I trusted you wrack her hody. "And I trusted you —loved you. Oh, don't worky. Lokit's companion! You succeeded in your plan. I won't tell the Aesir on you. You made sure of that! But I hate you, hate you, hate..."

"Fulla!" He hent toward her, hut she screamed.

"Don't you dare touch me!"

"Fullat You said you loved me. Now you jump to the first wrong conclusion against me. Will you listen, let me show you what I did and why? Or are you going to go on helieving the worst—on circumstantial evidence?"

He hent again, and this time she didn't scream. Instead, she turned viciously, swinging ber right bandwith a rock in it. Leif stood back coldly, spitting out

a tooth and blood without feeling the blow. He was numb and empty. "All right, Fulla. Tell your damned agods, if you like. And when you find what a fool you've been, remember I it did low you. I though you were someone I could hold to. I thought a lot of fool things. I should have known you were just a godden, like the Frigge—no good without your pedietal. Well, if you ever want me, whistle you way if fifty thousand, more years!"

He picked up the sack and slapped it over his shoulder without looking at her. Her painful subbing went on as he turned down the trail, and something in him hated the sound and ached to go back and still it. The larger part of him was frozen with hurt and anger. Love without respect and trust might do for the gods, but be wanted more than that out of life.

Heimdally and Loki were doing the impossible by standing amicably together at the foot of the path as became out of the woods, but be barelynoticed that the self-styled son of nine mothers was busily polishing the little telescope and heaming. He nodded toward them and went on grimly, beading for the workshop, Sudri would look beautiful after this past night.

"Leif." Loki was running to catch up with him. "Arroo! I'd better get our lady Fir to bandage that lip. It looks as if Thor bad hit you."

"Grin just once, Loki," Lelf told him, "and you'll wish Thor'd hit you!"

LOKI BLINKED and stepped back, bis eyes shrewdly appraising, and a touch of malicious amusement showed on bis lips. "Oho! So. And

our farmer is suddenly turned into a berserk hero. Well, Odin will be happy...."

His grin slipped off is Lelf moved toward birn. There was a haze in the air and a rattlesnake drew back fangs and threatiench, where Loki had been. Lelf reached for the automatic, juding where Loki must actually be, and the snake turned back into the god, this time with no amusement. "Enough, Lelf. Sometimes my mouth is a fool. Consider it unsaids."

The anger suddenly evaporated from Leif, taking most of the numbness with it. Only the pain was left. He could feel the starch running out of his system, and made no effort to stiffen again. Loki's eyes were sympathetic now, as he slapped Leif gent-

d "There was a girl once—about so bigh—" he said casually, indicating the point of his chin, but there was a curious edge to his voice. "Only it she didn't stay that high. Giants mature at to greater height than ours, he hat like the snakes of old, they keep when I saw her last; she called me y a ridiculous runt and threw me out. Funny how I still remember the girl Funny how I still remember the girl

ly on the hack.

e she was. Well

Something like the boom of thunder crossed with the crack of a board dhreaking rolled over them then, in sound waves that were physical be enough to stir the leaves of the trees.

Leff snanced out of his trance.

Above the entrance to the dwarf cave, a plume of smoke was rising, with a billowing cloud under it that still contained bits of timbers. The powder there bad obviously exploded, all at once.

A picture of Sudri's misassorted body coming down in pieces jumped to Leif's mind, and his legs began moving. Loki looked startled, and



As he strade eleng the path a coiled rettler suddenly materialized in the eir...

then went along, matching his leaps. They came over the rise of ground, and were among the hillocks, darting along the path, while the acridly sweet smell of powder hit their noses.

Leif gave a quick look to the leaning timbers, and then was inside, A velling voice reached him, and he turned toward it. Sudri was bent over the broken form of Andvari, shouting in the glottal stops and Bantu clicks of the stone dwarf dialect, but the mouth of the old dwarf barely moved.

Surprisingly, the damage hadn't heen as great as Leif feared. The solid stone wall separating the front section from the rear still stood, and the explosion had reached only the front 'wooden entrance. There were no other bodies.

Sudri saw him then, and faced him, "Someone came in and threw a grenade. I velled, Andvari held back the detonator. It was still partly his to control. We all went to the back, but he had to stay. He was too old to hold it long, and it went off, Not too bad. Most of the powder was in the grenades, already stored in the rear. But you see how it is,"

Leif nodded and turned to the old dwarf, whose pain-filled eyes were

raised to his. "Who?" · Sudri shrugged, but the old one motioned, and Leif bent over. There was a gasp as the stone dwarf fought

them and Leif heard. "Vali Odinsson," Then be dropped back, dead before

his head touched the floor. Sudri touched Leif reassuringly. "Don't worry about the detonators, boss Leif. Andvari told me the trick in his speech, I don't understand all. but any stone dwarf will. We have lots

of detonators, already." The foreman turned, shouting back,

while the cowering dwarves began to come out, staring at the wreckage. "You, Bifurr, Nori, Onarr, Miodvitnir, Vindalfr, Funding, Throing-vou fix things. We'll be in production in three hours, boss Leif."

"Yeah." Leif said absently, still staring at the old dwarf. He'd only seen the grim old figure a few minutes, but....be wondered what he would bave done with a bomb he could delay hut not ston. Damn Valil

HEARD the sound of others behind him, and swivelled on bis heel to face the crowd that was collecting. "Lee, you can stay if 'you like-Thor, too. The rest of you get the hell out of here before I set Sudri's crew on you with grenades. Gods. heroes, whatever you are, beat it! And from now on, anyone who comes too near this place-even Odin himself-without my okay, gets a grenade

in his guts." Thor came up, stern questions in his eyes. "Why, Leif Svensen?" Loki spoke quick words into the

ear of the black-hearded god, and Thor nodded. "So? Then good. I have little use for a leader who will not safeguard his men, even if they're but dwarves. Back, all of vou, before I try my fist on you."

Leif could see Fulla racing up as the crowd turned, her eves darting toward the entrance and striking bis. He with the unfamiliar soft sounds so tightened his lins and swung back to . foreign to his speech. But he formed the cleaning up that was going one a moment later, he saw her running offagain, toward the path to a tree, while the crowd grudgingly left,

Vali! It would do no good to confront him, since he was one of Odin's sons; and Leif had nothing more than the word of a dying dwarf, beard by . himself and apparently by Loki. Or

had it been only Vali? He'd warned Loki about the danger from a spark here, and Loki bad known what a

grenade could do from Leif's words. Leif no longer wanted to distrust the

sly god, but "Look!" Loki caught his arm and pointed. High above, gliding like a vulture, a dim speck showed in the ... He watched them storing it away

sky. From it came a harsh, mocking cry. "The eagle-much too big for that height, too. It must be a spying

giant."

"Fine," Leif commented. "So he knows we have boom stuff. He didn't set this off, though. All right, Sudri, carry Andvari's body back gently. We'll bury him in whatever rite his people use. Lee, sometimes I'd like to be one of those blooming berserkers. But there's nothing you can do bere,

if you've got other business." "I'm supposed to demonstrate the grenades," Lee said. His face was serious, and be tipped his helmet as he passed the body of Andvari, "Let me know if you need help."

Leif moved back through the caverns, examining the packed grenades that hadn't gone off: production had been fine. He kicked a small sack on the floor and swore at its weight. He stopped to toss it aside, just as Sudri spotted him.

"No!" The dwarf was suddenly under him, waving excited hands. "Bad stuff, boss Leif. It's okay for dwarves, not for men. That's the U-235 you wanted. Half a ton. It keeps better in small pieces."

Leif gulped, and nodded, "It does, son-it certainly does."

He should have known better than to try sarcasm on a dwarf: he'd mentioned it, it was an existent isotopeso here it was. 'Half a ton of it, in little bags of less than critical mass. How did the dwarves know that, and what did the gods need of bumans to show them how to beat Ragnarok? Then he realized that some dwarf bad probably gotten too much together in assembling it, but that it wouldn't ex-

plode when brought together slowlythat had to be done instantly, before its own heat boiled it away. Apparently the dwarves were radioactive-im-

mune.

in it.

carefully, and went back to superintend the reconstruction, noticing his tooth was already growing back. Idly, he heard the detonation of grenades, and wondered bow the gods were impressed by Lee's display. There were explosions again, followed by a long,

sustained vell. The walls were almost whole once more when Reginleif came up, stopping well beyond the entrance and

hallooing. Leif shrugged and moved out, with Loki behind him. Now what? They'd probably heard about the tree-unless

it was something worse. "If I don't come back, Sudri," he called, "look me up in Niftheim," But it wasn't a very bumorous

crack. It had too much possible truth

CHAPTER VII

LEIF'S eyes skimmed over the crowd as he reached the Yggdrasil judgment place, trying to estimate where he stood. It didn't look good. Loki whistled faintly in surprise behind bim

Frigg was speaking to Odin, and ber righteousness was all too evident. Beside Odin. Vali and Vidarr were nodding vigorously at what she said. Odin's shoulders were slumped more than usual, but they straightened as he saw Leif coming, and a gesture cut off the words. Heimdallr was intently polishing the lens of his new toy, and his face was inscrutable.

Fulfa sat at the foot of Frigg's dais. ber face lowered. She glanced up at the stir around ber, and ber eyes met Leif's for a moment. Something that might have been the beginning of a wan smile touched ber lips, but van-

ished as he stared at her. Lee started toward his brother, and

Thor lifted himself from his seat holding Lobo's collar in one band, the big hammer in the other. A lithe young busky Leif recognized as Thor's stepson, Ullr, scratched bis bead, and moved with them. They lined up beside Leif.

"Tell 'em to go to bell," Lee whispered. But Odin's voice cut off any chance

to ask for information.

judging. There is treason in Asgard. I have promised to my son Thor that your words shall be beard. But as a pupil of your patron Loki, who shall believe those words? Speak, though, and defend yourself."

"Nice unbiased justice, Valfather." Leif commented disgustedly, "Well, I've had a sample of Asgard's judging before this, today, I should have exnected it. What in hell am I supposed to bave done? If you mean the explosion in the workshop, there was treason, but none of my doing. You might try cleaning out your own household. on that,"

He saw Fulla's face whiten at his reference to the morning, but his eyes snapped back quickly to Odin, whose one eye seemed to be shining from a thundercloud. Vali came to his feet. bis ferret-face tautening. Leif stared at him, spat on the ground, and rubbed it out with bis foot. But the son of Odin only grinned nastily.

"You are accused of trying to destroy the einheriar," his bland voice announced, "The grenades which you gave were to be safe when not thrown with intent to destroy. And, to be sure, they behaved well when your brother bandled them. But Vidarr and I bave been given cause to suspect all is not well, and we demanded the

right to test them, Behold!" Leif's eyes followed his pointing finger to a gory mess on the ground

near Odin's throne, "Fifty or more loval einberiar, Leif Svensen!" Odin took up the tale as

Vali sank back to his seat. "From but two of those creations of yours, thrown by my sons. Nor can all my skill call them back to life again, scattered as they are. Shall we gather at Vigridr for the Ragnarok to find our weapons shall remove our beroes, leaving us defenseless before the Sons of the Wolf? Nor does it seem that

"Leif Svensen, a time has come for your treason stons there. But sneak!" Leif turned his eyes to Loki, but the sly god was staring intently back down the trail toward the shops, Niflheim pressed close, and Leif could feel the sickness of that vision stealing back over him. He turned to Lee, to see his brother bolding a single grenade in one band, doubtfully figuring the chances. It wouldn't work, Leif knew; there'd be some left, at leastenough to send them both to Nifiheim if Lee threw the grenade, But-if be could get his bands on it and move back from his small group of friends. it could not him in no condition to be revived for Niflheim. Compared to

> HE MOVED slowly toward Lee, facing Odin again, "Okay, I suppose you expect me to scream protests you wouldn't believe anyway. What good would it do? All right, so the mishandled grenades, wiped out some of your einheriar; And so I did mess around with the sacred tree of

that place, death would be a vacation.

yours...." Fulla was suddenly erect, screaming something, but the clamor of the others drowned the words. Leif slipped the few remaining feet to his brother and grabbed the grenade. Now if he had time to get into clear space....

"More grenades, boss Leif?" Sudri's

voice asked roughly beside bim. He jerked bis head down to see the

dwarves mixed with the little group around bim. Loki was grinning, rubbing his hand over a grenade, and the dwarves all beld weapons of their own. But before Leif could adjust his mind to the new facts, Loki's voice cut through the din.

"It would seem that the question is now whether Leif Svensen can he sent to Niflheim safely, Odin," he announced, "There are those present who feel that justice has not yet heen rendered, and among them is Oku-Thor and myself. You have seen what two of these can do. We have scores of them, and the skill to use them, which it would seem Vali and Vidarr

lacked. Am I right, Thor?" Thor nodded, "The grenades worked when I tried them, as well as Miollnir itself. Until the facts are

clear, this man has my protection, Father Odin. I demand justice." Surprisingly, Heimdallr was coming toward them, pulling a huge sword from its scahhard. There was nothing

formish about bim now: the softness seemed to have vanished, and the sword was a living thing in his hand. He took his place as far from Loki as he could, but clearly lining himself up on Leif's side.

Fulla had also left the front and was moving to them, but she besitated

as Leif faced ber, pausing irresolutely. "But the tree?" Odin was unused to having his court divided, and uncertain of the menace confronting him. Most of the other gods were shifting unhappily, not knowing what to do.

"Thor, you heard him admit to defiling the tree." "Then I say send one to the tree

to examine the damage first, and judge later!" Heimdallr waved the hig sword casually, "No need, I've been watching

the tree through this hit of magic which our young warlock rightly thought useful to one of my skill," He nulled it out and stared through the telescope, preening himself a bit as the attention of all focused on him. Leif still couldn't see bow his sight could penetrate through the obstacles hetween him and the tree, or how the telescope could help there; perhaps it was extra-sensory sight, and the telescope helped only psychologically, But Heimdallr seemed satisfied.

"The apples are ripe, and new shoots come forth," he announced, "It would seem Leif Svensen has certain abilities with such things."

Another yell went up from the gods and the ravens suddenly left Odin's shoulders, darting out toward the tree. Fulla's face abruntly came to beaming life, and she sprang forward toward Leif.

He grinned crookedly, He'd exnected that. Now that the weather was clearing, she wanted to be out in the sun. He ierked bis thumh back at her, and swung on his heel to face the more forthright figure of Thor.

He wasn't too surprised when the ravens came hack, each with a vellow apple in its heak. Time here could do funny tricks, it seemed, such as compressing weeks into hours for the fruit to respond to his treatment. Odin took one of the apples, smelled it, and hit into it. He bit again, and ten years seemed to fall from his shoulders. Others were reaching for the apple, but he shook them off.

"Leif Svensen, you have permission to stand beside us." · · ·

Leif scowled, but Loki's hand shoved him forward, and he moved up to the seat, mounting the little dais. Odin's band reached out with the apple, and there was only henevolence on the god's face.

REACTION was hitting at Leif, making his less tremble as he stood there, and the brayado that bad

somehow lasted through all the danger was gone. But as be managed to control his teeth and bite down on the apple, a sudden raw current of power rushed through him. He swallowed automatically, while a warmth and strength diffused over bim. Whatever was in the apples, it was powerful stuff.

"For this, Leif Svensen," Odin told him, "I would gladly forgive many things. And because this was no traitor's act. I am moved to accept Loki's explanation that it was but lack of skill in the hands of my sons which caused the grenade to wreak such evil. Or perhaps the influence of the spying eagle Heimdallr has seen. The matter of turning some of the Aesir away from me is otherwise, hut there was some justice on their side. You may go back to your work, and we shall consider the events of this day to have struck a balance. I declare judgment, and the Thing adjourned."

Leif stepped down, considering, But, this was no time to try to take care of Vali. He slipped back: letting his eves flicker across Fulla's face quickly, and rejoined Loki. The god was turning the dwarves back hastily toward the shop, and Leif realized that it might go ill with them if they staved around to remind the Aesir that they had come out to rescue him. He began leading them off quickly. while the gods clustered around Odin. waiting their turn for the apples.

But Loki was back with him before he reached the workshop, and Ullr had followed him.

"The youngster has brought something forth which is unexpected in the Aesir," Loki told Leif, grinning, "He's had an idea! And hy now you know how rare that is, and why I spend so

much time with you. Well, out with it. Ullr."

"I was thinking that those grenades

are good things. But even better would be arrows, made hollow, and with the same stuff inside, to explode when they hit. Can that he done?"

Leif took one of the arrows which the god held out and examined it. It was thicker than most he'd seen, and he estimated the matter quickly. The dwarves could produce crude sheet metal, and they could weld it in some mysterious way. The inner side wouldn't have to be perfect for this, provided it was ground straight and inbalance on the outside. He passed it to Sudri, and the dwarf nodded his big head, while his mouth opened in a grin that went three quarters of the way around his neck.

Later Leif watched Ullr go off with Loki to try out the new arrows. Since they wouldn't explode until wanted. the same ones could be used for target practice. He turned hack to his private room, rebuilt and relined. On impulse, he stripped the wristwatch from his arm and handed it to Sudri.

"Nice work coming up with those grenades. Thanks,"

The dwarf gobbled incoherently, strapping it onto his thick wrist and listening to it tick. He'd been fascinated by it since he'd first learned its purpose. Leif grinned and sbut the door after him. Sudri could use it for an interval timer, even if it didn't keep Asgard time.

HE PICKED up the mirror and scowled at it, jerking it quickly past bis eyes. But even the hrief glimpse of Niflheim was too much. Shuddering, he put the mirror away. Well, he'd passed the first crisis, and

he knew who his friends were. Loki apparently could be trusted in a pinch; the trouble was that he was

the most intelligent of the gods, and the only one to prefer wit to muscle. Maybe it had led him into some of the tricks of which the legends accused him, but it also put him firmly on the side of anyone who could meet his intelligence. Thor was a god of absolutes, hut he could he trusted so long as someone didn't pull the wool over his eyes. Ullr was so bopped up over having become an inventor that he'd go to any lengths, practically, for the man who could make the arrows. And Heimdallr was more or less on Leif's side-though his foreknowledge of the condition of the tree made his position a little doubtful.

But the rest of them would be just that much more against him because of the split that had occurred. They wouldn't like the idea of a mere man challenging them and getting away with it. Odd might he happy now with his apples, but the best that could be said for the day was that it had produced another truce. And there was the combination of Vali,

Vidary and Frigg lined up against him.

The next time, there wouldn't be any convenient apples to sway their

He got up as a halloo sounded from outside and went out for his supper. Then he stopped in the doorway, staring. Reginleif had heen replaced by Fulla. Well, why not? Wasn't he the hoy who'd saved her precious tree and hence assured ber of her new joh?

decision.

hence assured ber of her new joh?

He cursed the weakness in him that
made his hands tremble as he took
the hucket and platter from her.

"I found some vegetables," she said tonelessly. "Loki told me you wanted them, and how to make what he called a stew. Perhaps Loki is not all evil. There is fresh milk, not mead. I—I've never eaten stew."

He stared at it slowly, noticing that there was something that looked like cabbage and carrots mixed with the rest, as well as grain to thicken it. "Okay, wait a minute." He went inside, and came back

again a minute later. "I've taken half of it—that's plenty. You might as well have what's here; hetter for your complexion, anyhow, than straight meat."

She'd seized the hucket as if to

dump its contents, but now she let it fall to her side. Without a word, she turned slowly and headed hack toward the main buildings. Drat women, goddesses or other-

wise! He clumped hack in and started to eat the stew. It wasn't too bad, but each mouthful was harder to swallow than the one hefore. Finally he pushed it aside and picked up the mirror.

He found what he was seeking at last, and carefully watched operations.

that were supposed to be so secret that not a hundred men knew them fully. Obviously, the making of atomic bombs had been simplified considerably since he'd first read the descriptions of them. In a plnch, the dwarves could turn them out. The means for great violent out of the congreter violently weren't too difficult, and the same trick detonator would set off the charge that would start the

Just what could he done with them when they were made was another matter, though it seemed a shame to have all that power lying around with-

operation.

out using it.

He tasted the stew again, muttered it be himself, and began putting on his armor. The trouble was, he needed some company. And the solution to that was to go up where Lee and

Loho were, at Thor's place. He clumped out, automatically started along the trail that led to the tree, and then swore again as he struck out

firmly for Bilskirnir.

REGINLEIF brought bis next meals to him, but the vegetables and milk continued. If Falls was preparing the food, she at least showed signs of being a fair natural cook, and the short of t

But the work in the shop was going well enough. They bad greandse and to spare, as well as a good supply of the explosive arrows. Leif delayed the final decision on the U-235 bombs, but finally called the dwarves in and outlined it. He was right—the things were within their powers, though he had no way to test the finished ones, and could see no way to use them. Still, it kept the shop busy, and would turnish a good (talking point

for any trouble that might arise. The group at Thor's proved as dull ' as his own company, since Lee was chiefly worried about some means of getting a measure of efficiency out of the heroes, and Thor's lack of humor grew ponderous in time. Leif even tried spying on the news back on earth, either from the few newspapers that were beginning again, or by watching the events as they happened, but the difference in the time that had passed there and what be felt bad passed made it all seem unreal. Things had been unbelievable during the winter, but the worst was now past, and the prophecy had been wrong about there being three such years with no summer. The lethargic hopelessness of near starvation-and real starvation-was giving place to a surprising cooperation in getting back to normal life, but he could work up no real interest in merely watching it. If be could get back to

bis farm....

Finally, when Reginleif brought at trather good meat loat with vegetables as on the side, Lelf gave up. He told binnelf be was sick of being remindded of the fool he'd been, and that t, something was going to bave to be a done about it. He'd see Fulla for once i- and for all, and take care of things i- and for all, and take care of things

and for an, and take care of things properly.

He felt better as be buckled on his armor and went out the doorway.

Then he paused Coming toward

Then he paused. Coming toward bim in the gathering twilight, with a heappy smile on her lips, was Pulla. Beside her, Vidarr strode along, motioning down toward the shop. They were still a couple hundred yards away, but obviously coming toward him. Left started to duck back, just as Vidarr caught her arm. Left was puzzling over the two of them together when a sodden cry from above jerked his head up.

Hoge against the little light of the Hoge against the little light of the more and the little light of the transition, based straight for the two, it left fumbled for his automatic, yell-ti ing. But Fulla had seen it already, and was trying to run. The wings of the if bird suddenly abot out, stooping its fall, and it drove toward her, blotting her from Leif's sight. Then it was Illiung. Fulla was clutched firmly in its

talons.

And still strapped at her side was
the chest that beld all of the apples.

Leif fired at the eagle, knowing the distance was too great, and took a shot at the running figure of Vidarr r-futilely. He could see the eagle rising rapidly now, heading out toward the wall. Another cry came from its beak, and it began to struggle beavly... There was a corrucating flash of rainbow fire, and the eagle and Fulsseemed to dwindle into nothing.

It had crossed Bifrost into Jotunheim, taking Fulla and the apples



with it to an unknown fate!

CHAPTER VIII

FOR A FROZEN second, Leif stood there cursing himself. It was obvious that Vidarr had told Fulla Leif wanted her, and she had been coming to a tryst that would have been pointless if he hadn't heen such a pig-headed fool. Now, without the apples, the gods would he sleeping push-overs for the giants, leaving Bifrost wide open for them to get on to earth. He'd seen enough of the giants through the mirror to know what that would mean. Maybe he couldn't win Ragnarok,

but he'd done a nice joh of losing itin the worst possible way.

Then he swivelled and dashed hack into the shop, tossing savage words at Sudri, and grahbing for the mirror, shot after shat ofter the mighty bird es it flew every corrying the acreaming girl



He took one quick look, spotted Fulla and the eagle in it, and tucked it into his pocket. Sudri was petting away toward Bilskirnir as Leif came out and struck across the field at a full run, cursing the weight of his armor,

but having no time to remove it. He could smell the stables as he came near them, and he turned in

hastily. Reginleif was busy currying one of the horses, while the goddess Gna was watching. Leif grabbed Gna's shoulder and swung her around. "Which is Hoof-Tosser?"

She started to protest, but her eyes had tipped him off. He dropped her and, headed for the horse. Gna came after him, trying to hold him away, hut he had no time for fooling. He planted his fitst under her chin, watched her crumple, and faced Regintel it. The valkyr, hinked, squirmed as the automatic came out, and then plumped in to pull the horse

"Saddle him!"
She obeyed, and Leif came up-

Hoof-Tosser was skittish, but Leif knew horses. He gentled the animal, forcing his excitement away, speaking into the stallion's ears. Then he swung into the saddle, lifted Hoof-Tosser onto his rear legs, and pivoted about and out of the stable. He headed straight for the wall,

wondering how to steer upwards. He wasn't even certain that the animal could lift into the air, except on earth, as it was mythically supposed to. But it seemed to understand when he thew back on both reins, made a convisive leap, and was air-horne. Lelf had no idea of how to cross Bifrost or whether the armor he wore would cause trouble, but it was too late to wonder.

"Jotunheim, Hoof-Tosser," he ordered. The horse whickered, then drew

back its head and acreamed. Left tried to imitate it, and realized it wasn't unlike the cry Regislelf had given in going from earth. Already, the air was taking on the rainbow ripples he remembered. His armor was growing warm, and there was a queer twisting resistance, but the steps of the horse didn't failer this time: Loki had been right in saving entrance was easier to the other worlds than to earth Under him; Asgard turned to noth-

ing but color ripples, that disappeared in turn: Leif looked down to see a cold grey landscape under him, scraggy with huge boulders, and looking like something left over from a period of glaciation. He glanced at the mirror now, turning it until he could find the giant. But it refused to worknaturally, since it worked only through the dimensions!

Far ahead there was a victorious scream, such as a bird might make, and Leif headed the horse toward it. But though Hoof-Tosser went on eating up the distance, he could see notbing of his object. He shook his bead, to swing suddenly at a call from beside him.

For a second, he thought it was the eagle, only to realize that this was a great hawk. Hoof-Tosser nickered, and the hawk drew up. "You're headed right, Leif," Loki's voice called.

struggle. A fine membrane seemed to peel off, and Loki emerged from it, stuffing a small bundle into a pouch he wore. "Freyja's hawk garmentelf work at its best. Do you know. what you're getting into?"

Leif shook his head. . "I can't help vou." Loki told him. "At least, not inside one of their forts. . They'd smell Assard on me. You may be able to pass. Look, Sudri only barely told me that you were off after Fulla and the apples. Who's responsible?"

Leif told him, and the god nodded. He began to fill Leif in as best he could on the general habits of the frost giants, wasting no time on anything but practical details. Most of

his knowledge was unencouraging, Then he pointed down, and Leif could see a rugged castle below, apparently hewn out of one of the great boulders. He made out a lighted courtyard of some kind.

Loki had the reins of Hoof-Tosser and was urging him down, "We'd best land vonder, and you walk the rest of the way. I'll try to conceal Hoof-Tosser and work my way close. If you get free, whistle three times and the horse will come. Don't worry about me-I can find my way back. Just get Fulla to Asgard; those apples are our first worry."

Leif slipped from the borse's back. shaking his head as Loki held out a sword to him. He'd do better with the automatic. And if he was lucky, maybe he wouldn't need even that. These were the giants near Bifrost, picked to resemble and spy on the gods-and through their own careful breeding, he wouldn't be too unlike some of them: according to Loki, the barely mature giants were no bigger than a man, He

might be able to pass as one, THE HAWK somehow landed on Getting into the castle proved easy the horse's back, and began to enough. There was a spillway for rainwater at the side, and he hoisted himself up and through the wall. Light shone out from an opened door, and there was no one in the courtward. Inside sounded an excited habble. Leif gritted his teeth, and stepped in as if he had business there. But no one was looking toward him.

> All he could see was a pair of twisted, hairy less blocking the door, and supporting a massive body. Then they moved, and through them Leif could see hits of giants and chairs and something at the far end that looked like a glass case with a big sword in it. The top of it was suddenly opened by a huge hand, and Fulla's chest of apples dropped beside the sword. There was a hoarse bellow of laugh

ter, and Fulla's voice shricked. Leif twisted through the legs of the

giant, and moved into the room, as immense place, well packed with giants of all sizes and types, some with tusks, others with long fangs, and a few that looked atmost human in a betital way. All were intently watching a thirty-foot giant at the head of the table, who was causually holding Fulls in one hand. The other hand came out, swishing the thick hairs on the knuckles across her face. She tell felf.

She covered the expression almost at once, but it had betrayed him. The giant over Leif looked down and yelped. "Baldar!" Leif felt a taloned hand suddenly grab his middle, and he was sailing fifty feet through the air. "Hev. Skrinir!"

The giant who'd held Fulla reached out a hand and caught Left. The breath whistled from his body, and his ribs creaked, but the hand had cushioned the shock. The giant turned him over, staring out of narrowed eyes. "Itmm. No, not Baldar, though the looks something like that one. New one, and he doesn't smell like a hero, either—eat likeht. Thought I'd learned every As when I was a kid syying on them as Freey's messeneer."

From the hack, a croaking bellow came, and Leif saw something that was neither eagle nor giant, but turning slowly from one to the other. The thing croaked again, and its head became all giant. "It's the warlock— Leif they call him. Hai, Vali said he'd come."

"Of course I came," Leif yelled. The quiver that was running through him wouldn't show so much if he hellowed back at them. "As a warlock—Witolf's-kin—do you think I'd work willing's for the Aesir? When all the confusion came up, I lit out over Bifrost for your group on the double."

SKIRNIR laughed heartily, slapping his thigh, He wasn't bad looking, in spite of his size, and he was unlike it all the others in wearing a smile. But under it, there was something Leif a had seen only in the eyes of a man who had tried to beat a dog to death.

That man had been smiling, too, until Lee had knocked him unconscious.

"It won't work, warlock, We heard of you from Vali and Vidarr. Here, since you love the wench, Join her. We won't separate you. We'll roast you together, and after you tell us of Asgard, I personally will eat both of you. How's that for real uniting?"

He chuckted at his humor. Fulla moved toward Leif, her legs tottering under her. Leif's were in a little better condition. He was reasonably sure the giants didn't est people, but a lot surer of the saddism hehind the taunt. Fulla's eyes were hell-wracked as she slumped against a hig mug-he-side him.

"I got you into this. Oh, Leif, I'm such a...."
Then she screamed, and Leif saw

Skirnir picking up a huge ember in tongs, to begin moving it toward them. He reached for his automatic, vanked it frantically out and squeezed the trigger. Nothing happened! He'd forgotten to reload. Skirnir had started to duck, dropping the ember, but now the giant grinned again. He flicked the gun from Leff's hands and pulled the pouch of clips away in a pulled the pouch of clips away in a

He tossed the ammunition into the case with the sword and apples, and tried to examine the gun. It was too small for him, but he seemed satisfied. With a malicious smile, he threw it back to Leff and reached for another

snapping motion.

ember.

A bellow came from the rear, cutting off his enjoyment of the scene
One of the smaller giants rushed up,
tossing Loki's helmet onto the table.

"Aesir!" he exclaimed loudly. Skirnir frowned. "Damn! Vidarr swore he'd send them to Muspelheim after Surtr's tribe. No matter, they can't he in full strength, or they'd

have struck. Here, Hrymr, throw these two into the cage and get our horses. We'll have to look into this."

Hrymr grabbed Leif and Fulla in hands that resembled steam shovels and began dragging them off. All three of his mouths were drooling as he tightened his grip. But a bellow from Skirnir ended whatever ideas be had. He clumped behind the case, into a series of corridors, down some stone stens, and back to a cave covered by a huge oak door. There he tossed Leif

landing with a thud that threatened Leif's already aching ribs. The big door swung shut firmly with a positive click of the lock, leaving the cell completely dark, while the giant's footsteps pounded off toward

the others. Leif groaned, and Fulla began to roll off him, taking more time than seemed necessary in the process. She left one arm over his chest, and her lips were beside his ear, "Leif, I'm scared!"

He chuckled wryly, forcing himself up on his elhow. "Then that makes two of us. I'm afraid I wasn't cut out for this sort of thing." Leif got to his feet and lifted her

up, testing himself and finding no bones broken. He was surprised to notice that the weakness wasn't bothering his legs now; apparently he was getting used to being afraid. But he still couldn't laugh at danger, as Lee did. Then suddenly he realized he had laughed-and wondered whether the heroes might not be laughing at their own knowledge of fear.

RESIDE HIM, Fulla caught her breath, snuggling against him,

The warmly personal scent of her hair penetrated, even over the musty odor of the cell. He pulled her closer, his lips tautening in a twisted smile. If the giants were coming back soon. he'd probably be screaming in agony too intense for thoughts of her within the hour, but he didn't have to die now in anticipation. The future couldn't take away any pleasure from the present, at least, and only a fool would do less living than he could while life still stirred in him. He caught her chin, and found her lins in the dark-

For a minute, it seemed to work; then a vision of Skirnir smiling and moving the ember forward captured in quickly and sent Fulla after him, his mind. He drew back, grimacing, This was a hell of a time to be billing and cooing-particularly when he had no way of knowing what sort of a lam Loki might be in.

"We've got to get out of here." he stated. "As soon as I can get a light to see what the set-up is " But Fulla sighed softly, reaching out a hand from which all the trem-

bling had vanished. She took the matches he'd been striking futilely and thrust them back into one of his pockets. "There's no air for the flame sticks to burn on Jotunheim, Leif, We only seem to hear with our ears and to breathe hecause Bifrost adjusts us in passing over. And the fire the giants have is magic. But I don't mind the darkness or what the giants will do, as long as you're not anery with me any more. You do like me now. don't you, beloved?"

"I do, kid," he told her. In spite of the fifty thousand years she may have lived, she was still only the twenty vear old girl she seemed, at heart.

She made a purring sound in her throat. "Even if you had ruined the tree and killed the Aesir, I'd still he yours. It wasn't my heart that hated you and hit you. Leif-it was all the traditions that die so hard: But after you went away with a frozon face; I knew the tradition didn't matter. Only then you were so cold and distant.... Leif, why did you come to rescue me? I'd: caused you so much trouble

already." "Shh." He'd never had much use for story heroes who dropped their important work to rescue some clinging vine from the villain, but it seemed natural enough now. It was probably a tradition as deep in his race as the traditions of the gods and giants-traditions that could hold hack Ragnarok for the right signs, even when the giants could have found Asgard asleep and undefended. Or maybe it was because he was responsible, and he'd had to develop a sense of stubborn responsibility in the long years of running the farm for Lee

and himself.
"Shh," he repeated. "I'm not sorry."

It was the right answer, and she leaned against him, content. Or as nearly so as a woman can be. "I must look a mess, heloved. If we only had a light and a nirror..."

His sadden yell cut off the words, and he was fumbling in his pocket, cursing himself. Of all 'the darned foods, forgetting the dimensional mirror! Somewhere in a hig city on earth, there'd he a searchlight, he could locate. His mind direct the foousing, the could be care the mind of the could be care the mind of the could be care the mind of the could be compared to the high the part of the could be compared to the high. The massive walls of the cell groung into view.

He swung the light over them, finding no trace of, weakness anywhere. And the door was solid, locked on theother side with no hole to pick that lock. His heart sank for a moment, and then he grunted: it was supported, on four bronze hinges, each fastened

with three brass screws instead of the.

I pegged construction he'd, expected.

The giants had more technology thanbe had thought.

"Hold, the light on the door," he told Fulla, giving her the mirror. He drew out the automatic. There were things about the gun's army design that the giants hadn't suspected, such as the fact, that it was specifically made to be its own toolkit. He. hegan. disassembling & rapidly.

FINALLY the rod that served as a

as crewdiver lay in his hand, It. was apparently pitfully weak and slim, but the metal in it was sound, and brass screens turned easier than iron ones. He found- hits of rock to prop up the door and take the waste of the hinges, then began working on the first screw. It was rough going, and his hands ached with the effort of forcing the screens, but they turned. In minutes, the last screw dropped into his hands, and Pulla coord admiringly.

s reaching for the door.

He shook his head, massaging his fingers until he could reassemble the automatic. They'd have to reach the case to get the apples, and once there, a new clip would make the gun his i best chance of getting free.

The door, moved reluctantly as he heaved at a cross piece, and began to swing in. He took its weight or his shoulders, somebow easing it down to the floor. Maybe there was no air, and hence no sound—mult if he'd, thought he heard Hrymr's footsteps, then the glains might think they had heard any loud noise from a falling door.

Leif, wiped the sweat from his forebead, and peered out into the corridor,
that it seemed free, and, he reached his
hand back for Fulla. They crept forward cautiously, but the place-seemed.
deserted. He began dashing down a
lone passace, just as a fluer stepped i

out of one of the side corridors. Leif brought the automatic up without thinking, but a quick whisper

reached him: "Hold it, Leif!" "Loki!" Fulla moved forward to

the god, making a few quick gestures, and nodded. "It is you, and not a deception. We thought you were caught."

"Too had I wasn't, eh, Fulla?" Loki asked, grinning at her. Then he made a whistling gesture, "Well, what's this? You seem almost glad to see me. Leif, you'll have the weach tamed yet. No, they didn't catch me; I used the belimet to distract them when they had you, and slipped in here under illusion to save you. I can't hold the trick long here, though, so you found me in my own form, Come on,"

He'd heen moving forward as he' whispered to them. Leif gripped his shoulder silently, and the god grinned again, accepting the gesture properly as thanks. He led them around a complicated course, quite different from the way Hrymr had come, but a few minutes later they were cautiously edging out hehind the case holding the apples, sword and ammunition, "Luck," Loki commented. "No gi-

ants. Open it." Leif lifted the lid-and a sudden clangor hegan from a hig hammer heating on a brass gong imbedded in the floor. The giants had a warning system, and already he could hear a vell from outside. The hig creatures would be there in seconds-long be-

fore they could reach the door! CHAPTER IX

LOKI HAD already snatched out the things from the case. He tossed the chest of apples to Fulla, handed her the sword with a low wbistle, and gave Leif the clips. Leif began sheving one in at a run toward the door.

while Fulla swung the great sword experimentally. It seemed to he light and almost paper thin, but amazingly tough, passing through one leg of the case without apparent resistance.

There was a louder clamor outside, and the giants began boiling in, answering the gong. They came shoving through the door, ranging from ten to thirty feet in height, forming a solid wall of swords and spears as they charged at a full run toward the three in the middle of the room. Leif brought up the automatic, but he knew it was a futile gesture against that amount of brawn.

Hrymr clapped two of his mouths together in surprise as the bullet hit his chest, but the spear in his hands rose to throwing position without a tremor, and started for Leif.

Something whipped past Leif's head from hehind, just as Loki's hand caught him, dragging him down beside Fulla, flat on the floor. Then the room shook to an explosion, and Loki was bouncing to his feet again. Where Hrymr had stood, there was only a gory mess, and the giants were hacking away, except for a few who were making no further plans due to sudden death

"I've still got two grenades," Loki said grimly. "With enough luck, we may be able to get outside in the dark. After that . . . Come on, we've got to find cover before they strike again."

He led them at a run across the floor, dragging the corpses of four of the giants into a crude barricade. Fulla hlanched at the prospect of dropping into that mess, but she was down with them when the giants started forward again, They'd learned; this time, Skirnir was sending them in well scattered. to minimize the effect of the grenades. Spears came up, and the floor behind the three trembled as the heavy weapons landed. But the bodies had given



They took cover behind the uptureed table as the glasts bettled furiously....

them protection enough, until some bright giant decided on a forty-five degree cast.

Left was shooting, taking his time

and aiming for their throats. The big torsos seemed unbarmed by 4.5 slug, and the head would be too well protected by bone. He reloaded, counting three more clips. Loki waited until several in advance came almost together, and threw the second grenade.

Skirnir yelled, but it caught several of them. This time, though, they made a forward rush as soon as the explosion ended, and Loki was barely able to get the final grenade thrown in time to halt the leaders.

They hesitated, and Loki nodded, "Next, they'll loose the rest of the spears, and then charge Here, this one had a sword you can manage. Keep low—in a braw!, sometimes, being,—shorter is an advantage. Strike to cut their, tendons, and then into their throats when they fall. Fulls, Em calling Hoof-Tosser, If he can get through

to us, grab him, and get to Asgard."

Sbe gripped the amazingly versatile sword and shook her head. "I can kill giants with this."

"Yourscram!" Leif ordered barshly. He beard Loki let out a piercing whistle, keeping bis eyes on the giants, who were already drawing back their spears.

Hoof-Tosser suddenly crashed through the dose, high and coming fast, with his feet beating down at the giants' heads: For seconds, it. disconcerted them, and the horse dropped. Lefi made a sweep as his arms camearound and threw Fulla-into the saddle. The horse rose at a yell from Loki.

Then the spears fell, one grazing against Leif and catching in the cloth of his trousers. He yanked free, as the giants came boring in, and was over the barricade with Loki.

THEY. WERE lucky enough to dart into the thick of the charge before the giants realized: they were coming, and Leif began struggling, to stay with Loki and avoid the giant legs at: the same time. The god was right

since the giants had difficulty in sepfarting enough to get a clean sweep, at the pair. Leif chopped out with thesword, ducked as a giant started to fall, and managed to drag the point across the huge flabby abdomen, disemboweling the creature as it fell. Beside him, there was a noke of metal against bone as Lokl's sword found a, tripoat on another fallen giant.

But that gave the opening the giants needed. Lelf felt at hige handl dart forward, leaped to avoid it, and found himself in another hand, with Loki also encircled. Their chance was finished before it really began.

Then the hand suddenly opened, and the giant began falling, his head jumping, from his shoulders toward the floor. Leif's eyes darted up to see Fulla coming down again on Hoof-Tosser, the sword drawn back, for another swing.

And a roar from the doorway seemed to shake the whole room and drag every giant around.

"Thor!" Loki yelled. "Get behind that barricade and lie close, before we get trampled."

Leif: snatched a glimpse of Hoodrosser carrying Fulls toward the doorway, before he dropped beside. Loki: Thor's fighting bellow came again, and there was a deep, hollow sound that could only be his banimer finding: a giant skull. Almost on its beel, the sound of a greenade came, followed monther. There was a sudden thump of giant feet, and the first game heaped ever the bodies shielding. Loft leaped ever the bodies shielding. Loft

h. and Loki.

s Leif's sword leaped up, and the
s giant landed with a stumble, to fall
on his face, and start crawling away

his heel sliced through. "Good man," Loki said approvingly,

and his own sword licked out.

Then the flight ended, and Thor was over the bodies, dragging Leif and Loki to their feet and shoving a bag of grenades at them. The first of

the giants had just reached the exit when Leif's toss crumpled him, A minute later, there were only parts of giants lying around.

Lee came running up. "Okay? God, son, you had us worried when we couldn't see you among those giants.

Hey, Fulla, come on down and let's see one of those apples." She was dropping already, and Leif

accepted the fruit gladly. He could barely stand and hold the sword now. though it had seemed a part of him during the fight. But the first bite of the apple sent its usual heady strength through him, and he managed a fair orin.

He was surprised to see even Thor wiping sweat from his forehead, and accepting the next bite of the apple. "Without those grenades, things might bave been different. They were more than ten times what we expect in a fort, by usual rules, Ho, you'll do, Leif Svensen. There's a place for you on my right side when the Sons of the Wolf come down at Ragnarok, if you want it."

Leif realized that Thor was handing out the highest honor he could, and apologizing for his comments that first time at the tree. Somehow, he felt like a peasant who had just been knighted by a king. This queer tradition of theirs began to get in the blood in time, But Thor cut off his thanks by lifting Fulla from Hoof-Tosser and into Leif's arms, then picking them both up and carrying them toward a tank of liquid-at the

"And a maid worthy of a ber-

side

serker," the big god rumbled, in his on hands and knees, the tendon in closest approach to humor. "But my goats won't like the stink of glants on you.22

He doused them into the tank and out again, rumbling what was probably meant for a laugh, then seized Loki

and treated him the same. They came out surprisingly clean, and almost instantly dry.

"How'd you reach us?" Leif asked. Lee grinned. "We were already following Sudri's story when Vidarr came up with a big story about giants from Muspelheim. Everybody else went off there, but I persuaded Thor that there was a lot better reason to trust the

dwarf." -THEY WENT out into the courtyard then, where Thor's two goats were waiting, each slightly larger than a Percheron stallion. Thor

climbed to the front of the vehicle, looked back to see all were accounted for, and velled. They were off at full speed, with Hoof-Tosser trotting along at their side. Loki and Lee stood beside Thor, looking forward, and Leif and Fulla were alone at the rear. But he was too tired to do more than hold her close quietly, and she seemed content to fit his mood. It was over an hour later when Thor's bellow range out, and they began crossing through Bifrost, to pelt on over the sward toward the judgment tree

Thor's yell sounded again, and the gods scattered to let Thor through. Leif grabbed the reins of Hoof-Tosser and vaulted into the saddle, unfinished business bringing new strength to his body. He stared through the crowd, noticing that Odin and several others were missing, but his eyes searched for Vali and Vidarr.

Then he spotted them, off at the side, between Odin's seat and a small pile of grenades Odin was keeping for his personal testing. Their faces were incredulous, but hardening into sudden action as they turned toward the grenades. Leif reached for the gun, to find it had twisted in his backet

nades. Leif reached for the gun, to find it had twisted in his pocket. Thor shouted, and the hammer cut the air with a scream, lifting Vidarr

from his feet and splashing him against the tree. But Vali had reached the grenades and scoped one up before Leit's gun was fully out or Thor's bammer could return.

Vali was confident now, his ratface smirking. "Safe conduct, Thor, or the lovely Fulla and the apples will be supping with Baldar! You've won now, hut...."
The zun in Leif's hand spoke sharp-

ly, and Vali's face blanched as the grenade fell from his pierced wrist. Thor's hammer came up, hut Leif was remembering Andvari as well as the threat to Fulla. "Mine, Thor!"

Thor nodded. "Yours, Leif Sven-

Hoof-Tosser was already in the air, overtaking the running Vall. Leif brought the horse down, kicked as acrefully as be could at the treacherous good's head, and was off, gathering the thin figure up and fitting it in front of him on the saddle. For the could be could at the country of the

Then all bell was tearing at Leify amind, and even the borse was whickering unhappily. Vall screamed, and began to straugel, to cases in a began to straugel, to cases in a ripples of color began to die down. Leif clozed his eyes, but the hell still poured over him. He held back, his overal cords, asrangly fighting to keep overal cords, asrangly fighting to keep constant of the still be and the still be and the still be and the still be a summoned the last desperate effort of his will. There was apparently like gravity, there as he lifted Vall over the load and to store the god forward.

Tosser back; but the horse had had enough, and suddenly reversed of his own will. Niftheim's cold fingers released re-

luctantly, but Leif's eyes were frozen shut, and his mind teetered and glbbered at him, even when the voices of the gods were around him again. He felt hands reaching for him, and

then passed out.

Fulla was craffling him, and there was the tatte of apple in his mouth when his mind began creeping sheet. His harah had mercifully refused to remember anything clearly; sometion of scarred memory from the few ninutes, but its very horror had burned all connections to his consciousness. He grimed teebly at Fulla and looked up to see Othin on the seat, finishing some remark to Frigg. The ming state was travel fised on Left.

beaten than usual, but he was holding the hell of the trachery of two sons to himself, and Lelf was surprised, to see no anger in the god's eye. Odin watched Lelf rise, and noded wearily, "I have removed the burn, of Niffhein, Son of Sven, in small gratitude, for saving" me the need of dealing, such justice on one I had thought my son. Henceforth, by virtue of all that has happened on this day, be known as Lelf Odinsson!

The Alfadur looked older and more

There were incredulous sounds from the other gods, and Frigg screamed, her hands contracting to claws as she turned on Odin. Leif shook his head and looked to Loki for information,

LOKTS expression was both puzzled and more sardonic than usual. "each, that makes you an official god, Leit, adopted by Odin himself. But don't get any ideas—Odin probably did it to spite Frigg as best he could for siding with Vidarr and Vali. And there are catches to it—it doesn't mean you are any freer; you're bound now to win Ragnarok more than ever-oryou'll join Vali as a traitor. And it takes several thousand years hefore you hegin to develop any powers you don't already have, so you're still a

don't already have, so you're still a god in name only!"

Put that way, it was easier to believe. Leif ilked Thor's accolade better

than this empty honor. But Odin had quieted Frigg and was speaking again. "And lest Loki make you think this a mockery, though it is the only honor we have to give, all, former oaths apply. Should we win Ragnarok, the

boon of which I swore here is still yours to ask." He shook his head slowly, stepping down from his seat and approaching Leif. The arm the god laid on Leif's shoulder was a tired one, and Leif felt a stirring of sympathy that deepened as Odin went on in a low voice. "But to the son who replaces two unnatural ones, I admit victory seems most unlikely. The giants now know of our newer powers, and the Gaping Wolf already seems to course heside the dog Garm, while my eyes saw the hordes of Surtr assembling in Muspelheim. We have won back a weapon worth ten thousand einherjar, since the sword you found in the case is the great weapon of Freyr. But without Vidarr, who shall kill the Wolf when I have been swallowed? Thor! Leif! I grow weary, Lend me your strength as I go to Mimir's well to read what shall come of the future

Left shook bits head slowly, conscious of the never-ending surprises of this paradoxical world. He looked at the icy, venomous face of Frigg, and hack to the god who'd given an eye to learn only that he must rule with the certainty of eventual defeat —and to whom being swallowed was a lesser wil of the dire things to come.

now."

Suddenly, Leif had enough of it.
"Father Odin," he asked, "as Leif
Odinsson, do I bave a voice in coun-

ore Odin nodded gravely, "Even as

Leffs eyes swept over the crowd. Heimdallr was buy polishing a part of his golden armor; Freyr was fingering his newly restored sword with open delight; Fulla's face was beaming, and Lee had his hands clasped together over his head in a vote of trimph; even Thor was booking on with a broilerly acceptance. Then Left surnet to Friga gazin, and all the Left surnet to Friga gazin, and all the the hopelesses of all of them open and obvious.

"Then I demand to he heard," Leif stated.

f Odin shrugged and stepped back to his seat. "Speak, Leif."

LEIF FELT like a fool at the attention focussed on bim; well, he'd never enjoyed making speeches, though he'd made enough at farmer's meetings. Loki could have made a hetter one, but he could at least tell them what he thought.

"My ancestors had a lousy religion

one." he began altruptly. "It was the ploomiest, much fulle one created. For every major god, they had something evil to Jall him; and the hetter the god, the worse his fate. To make it neater, they had those gods knowing, what was to happen. But that was all right—those emectors were only rude barbarians. They could have a sepent to Jall Thor, Surt to kill separate the properties of the lill Thor, and a general havining of lill Thor, and a general havining of the universe by Surtr after evil had

an won.

"But then I get brought bere to find
feat that they got those notions from you
as a —after you'd bad thousands of years
me. to learn better! You're still swallowing

the bog-wash today—even when you've already seen half of the predictions turn out to be a pack of bas-been lies. You still think the norm—who couldn't even predict the sleep—are infallible. They were right about soand-so, weren't they? The lidea that you made it come true by believing every word they rut out never intered

your heads.

"Or take Frigg, Once, in trying to showed it how well she could protect be a facilities of the control of the country of the cou

Odin was staring at his wife with a speculative look in bis eyes, and there was iron firmness in his voice. "Speak, Frigg!"
She snarled at Leif. "No one can

She snarled at Leif. "No one can tell that, since Thor dies by the venom. Tradition and my foreknowledge say it!"

"And both sic liars," Leif told her flath, "The dwarves have made me plastic sheets that even bydroflooric acid can't touch. In an inner suit of that, Thor can swim in the venom, and laugh at you—as he will livethrough it. And what of all that bunk shout Vali and Vidarr living beyond the Ragnarok to found a new world? Am I greater than your whole world, Am I greater than your whole world, that I can upset your fixed future?

"When I was brough here, I may bave been a coward, as I was accused. But I wouldn't have sat around a witches' cauldron with a bunch of old women being scared sick by fairy tales. I'm one of you now, and it's my future, by your own choice. So—do

you really want to win this war? Because you can."

Odin had been saying something to Frigg, and the god waited until she stepped down with blanched face and unbelieving eyes and began moving off woodenly. Then he turned back to

Leif. "How. Leif?"

"Forget your traditions, step waiting for the giants to bring the war to you. Use the courage all of you have, individually, and take up the weapons I have against the giants, before they can organize. Wipe out their leaders while their traditions keep them belpless!"

Thor's bellow seconded it, with Loki and Freyr Johning. Odin nodded slowly. "I say good, Leif, but this is something on which all the Aesir must decided. Those who would join in that, stand to my right. Those who would await the Gjallar-Horn, choose my left."

Leif stared incredulously. Beside bim, to the right of the throne stepped Loki, Thor, Freyr, Fulla, Odin, and Ulr. Even Heimdallr stuck to tradition and moved to the left.

They were to wait like sitting ducks for the giants' timing.

CHAPTER X

LEIF SHRUGGED, letting the spirit that had prompted his appeal die out, and went up to Odin's seat. "All right, then, I suppose Thor and I might as well help you to Mimir's well. It's as geod as anything."

Otin smiled faintly, and shook his bead, motioning Lelf back. "Lief, my son, traditions are things beyond reason. For the logic you have used and the thoughts it has given me, I like you—as I've liked Lokit is spite of all the traditions against him. Well, the others have won, but let Mimir's well jei. I have enough for thought already. The glasts are warmed now, and will

strike too soon. Fulla needs you more than I-go to her and the work that is needed."

He turned and moved away, leaving Leif blinking, while Loki chuckled in the background. Fulla was moving slowly toward the buildings, her eyes on the ground, as Leif caught up with

her, and she refused to meet his eyes. "Well?" he asked at last. "The Alfadur had no business....

Perhaps I said things while you were burned from Niflheim, but... Maybe I even said I needed you," She shook him off as he caught at

her, "But Leif, I know your heart isn't with Asgard. I know you mean to use Odin's hoon to return to your earth. And since you have eaten of the apples for only a short time, you can return, though it may be hard at first. I thought there was still a little time until then, and that we.... I should have known your words were only to soothe me while the giants had us,"

He caught her to him then, "The words were what I felt in my heart, you precious little fool," he told her gravely, "And if I can go back to earth. I'll want you to go with me-if you can give up all this to he just a farmer's wife. You'd have to pretend to he just a woman-no goddess."

"It wouldn't be pretense-I'd he no more there than any woman. Only Odin, bis true sons, or Loki can retain

any of their powers on earth." "Oh," His hands began to drop from her shoulders.

think that matters to me? I'd go with you if I turned to a giantess! But it would never do. I've eaten the apples too long, and without them, I'd grow old on earth and die as a hideous hag -when you were still in your prime. "We could take a few apples and

put them in the deep-freezer . . . " "A few apples last all Asgard a thousand of your years. Leif-because

there are only a few, ever, But on earth, all of them would he less than enough for one of us for a single decade! If we could have even one "

She threw off the mood and drew his head down to ber. "But we still

have a few weeks before Ragnarok. Leif-if you want,"

He looked down at her, comparing her to the girls he'd known, and even the dreams he'd bad when he was very young and naive. He could see the smirks from Gefjun and other goddesses, and knew he should refuse, for her good. Then he smiled at her, "A

few weeks can be a long time, honey." But long after night had fallen, he lay staring into the hlackness of his room. They were short weeks, hefore the giants struck, and the gods were hopelessly outnumbered, the einheriar almost uscless. The giants would have all the advantage of choosing the time. and the Aesir would he defeated by

their sense of inevitable defeat. If the miracle of victory for the gods occurred. Leif had practically an eternity of life in a tradition bounded world where there was nothing to do but turn earth into a vassal peasant state, subject to the whims of the gods. If they lost, Leif wouldn't know it, but the giants would wrack and raze earth with fire and destruction.

It was just a question of time before one of the two alternatives was thrown at him. He wondered idly how much time, and dismissed it, to sleep and dream of Fulla growing old and She pressed them back, "Do you wrinkled, cackling at him out of toothless gums.

> But a month later, Fulla's face was still the same and her teeth seemed highly capable as she sat chewing a mouthful of pancakes and hacon. And Leif was still wondering when the giants would strike,

> COMETHING that sounded like all the klaxons invented answered his

question, wailing and keening throughthe air. Fulls paled, borror runninginto ber eves, "Heimdallr blows the-Giallar-Horn! The giants are at Vieridri"

Leif poked the last of his breakfast into his mouth, considering the fact that Ragnarok had begun, Now, as Leif Svensen, he could go to the shops and await the returns: But as Leif Odinsson, his place was to the fore: He got up and began buckling on his armor, with Fulla's help, Finished, he blinked as she came out with a suit

of mail motioning him to belo ber-She met his eyes firmly, "I'm fighting. Do you think I care what happens if you don't come back to me. Leif?"

He knew he should protest; but hefelt no desire to: If she wanted to be in the battle, that was right for her; He helped her quietly, and went out through the workshop entrance, wherethe worried dwarves tried to vell encouragement after them; The work there was done, as best it could be, Leif moved toward the stables, seeing: no other god near them trying to realize that this was it: But the fear he expected refused to come. He was only conscious of a vague-relief that

the waiting was over. Lee caught up to him, swung him around to stare at him; and grinned. "You got it, son, I always knew you'd make a better hero than I, and by-Ymir, I was right. You'll be around after this is over--you can't kill a

man with that stuff in him." "I'm not scared, if that's what you

mean. Lee. But I'm not looking forward to it for the thrill, or laughing about it."

"No-no, of course not." Lee frowned in thought. "You don't have to. You can go in cold and dead serious, like Thor and Tyr. Look, mygodly twin, d'you know what would happen if Loki or I quit pretending it was all just a joke or a thrill? We'd

funk out. We don't dare take it seriously. Damn it, if I don't get off the soap box, I will funk it! See you at

the wake tomorrow!" He-chucked Fulla under the chin-

and was gone at a run toward Thor's group on einheriar, his voice taking on parade drill tones before he reached them. Leif found the valkyries busy sad-

dling, and cut through their chatter. "I'm guessing that nobody gave youorders. What are your plans?" Reginleif looked doubtful; still not

used to his godbood. "To the battle, as always-to rescue the . . . "

She fumbled, and Leif grinned wry-"Tradition, isn't it? To rescue the

new heroes! Not this time, not by a damn sight. All right, get on the horsesand go over to the shop of the dwarves. Sudri has his boys ready, and they'll load you up with grenades and tell you where to haul and dump them. You don't like taking orders from dwarves-but you'll do it, or I'll give your horses to the dwarves. Fulla, you get along well with Hoof-Tosser, and: Gha doesn't know enough about the whole business. Take bim and a few of these girls. They can lug the small U-235 bombs up to Bifrost, where you can carry them over to the trails in

know what to do?" She repeated the plans she had: heard. Under the stupid tradition, he hadn't been able to take precautions in advance, but be could cut off most of the reinforcements from getting out of the giant worlds by dropping the atom bombs on them where they were

Muspelheim and Jotunheim, You

massed outside the entrances to Vigridr, The stone dwarves had modified the time element on the detonators to give the bomb carrier enough time to escape:

Leif nodded approval as she covered it. "Good! Hoof-Tosser is the only horse that can get off the ground, except over earth, and probably the only one strong enough to carry a bomb across even those easy borders. Take care of yourself, kid, and don't get too low."

She matched his mood hy avoiding all emotion. He left as she began to give the valkyries orders. He located Loki and Thor and drew up to them, noticing that the black-bearded god was wearing his plastic underarmor properly. "How bad is it?"

I OKI GESTURED toward Leif's mirror, and they all moved toward the wall, where they could watch Asgard and examine Vigrid's through the mirror. Sometimes Leif almost Gropst that the fittle battle-world lay across Bifrost, in another dimensional this, since it lay so close, and passage through Bifrost, to it was so easy that the pigs had to he chased back regularly from it.

arry trom at Fryy had already assembled their troops at the end of the battlefield nearest Asgard, and Tyr was coming florough with his Vigrida field was hetter than two handred largest land mass on the world. Lee came moving through then with the left wing of Ther's band—the strong-tell wing of Ther wind whole. As Left watched, he saw the vallyries begin to move down, dragging wooden sleds of grenades behind then, in addition to those belied to

But there was a mist over the filed, and at first Lelf could make out nothing of the ginnts. Then it began to clear, and he groaned at what he could see. The forces of the Aesir seemed lost in a tiny corner of the field, compared to the seemingly endless expanse of giant forces. And only the picked monsters were there—none less than thirty feet in heleith, and one

whole company running to nearly vivice that. They were armed with everything from swords through piles to maces—and the last looked the most dangerous. But he could see no sign of hows and arrows, or of the cement-tamper gadget held dramated pas the best answer to killing off the Assis forces, if he'd been on their basis of the could be not the country of the coun

ticular cultural development.

"It in't quite that had," I old said,
"Vigidi has a gravity only about a
quater nornal, and we're more agile.
But as you may have noticed, Jotunheim has even less, and the molicity of the
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heim has even less, and the regions of the
heim has been been been less that he
the hemselves to light that they had to
remember not to use this; full
strength, and it slows them up."

They'd need the advantage, and then some, Leif decided. "How'd so many get there, anyhow?"

Heimdall' came up and caught the question, huckling on the plainest, dirtiest, dullest and heaviest armore. Let'l and yet seen, and swinging a men. There was a curious drive to his voice, totally unlike his usual affected draw!—"My fault, brother. While Taxibet to begin, these were coming in on the grasses, and waiting for this day. You were right—we should baye struck them first. Well, good luck struck them first. Well, good luck

dd among them."

Leff felt the three clips left in his pouch, made sure all his grenades were in place, and loosened the huckle of his new sword. He had Sudriss alloy and forge it from the toughest formula he could find on earth. It

was thin and light, but its cutting edgecould slieer through normal steel as if it were paper, He'd imitated Freyr's sword as best he could; and tried to sell the idea to the others. But they preferred the familiar, just as they distrusted the thin, tough solid armor he'd had forged. They were used to chain mail: and he couldn't convince: them that this spread the shock better. But a lot of them were carrying the little polished shields that could becarried horizontally; to signal reflections of any sudden movement abovethe wearer, giving almost full-circle

vision against the glants. He started to climb into Thor's. chariot, to stop at an exclamation

from Loki, "Naglfar!" Something was coming through from Jotunheim: that looked: like an immense ship, but which must be a huge mobile fort-complete-with hallistas, which he'd never expected. It rolled on immense wheels, powered by the basely visible feet of some incredibly large monster. Then Bifrost seemed to buckle and develop diffraction patterns, while, a hlinding light ran along Naglfar, seeming to crumple

"Hrvms was supposed to steer it," Loki said: That prohably caused the delay while, they trained a new driv-

the fort like a paper toy ...

er. But what ruined it?" "U-235." Leif. answered, and waved up- as Fulla went overbead on Hoof-

to wipe out the gods by itself ... THEN. THOR made ready, and Leif waved at Loki, who would be the messenger, since his skill, at sleight could serve as enough disguise to make him pass unnoticed during the rage of battle. Thor velled at the goats and they went slipping through the faint ripple of Bifrost, while the

einheriar followed. Leif looked at them

and grimaced. They were going into something that was beyond their imagining, but most of them didn't have enough of the life-force to realize this was more than a routine day. And the ones which were almost without life-force in their elf-shaped flesh had been left behind for reserves.

"I've had no training at this, Thor," keif commented. "I won't be muchlielp-to you." '

"Training-it takes something else!" I'm glad to have you with me, Leff. and if the Serpent gets me, it will he good to know you're there to lead my hand; Ho! They're moving," Odin's band had started, and the

distant figure of Odin could he seen: in his gold helmet, holding what seemed to be his spear. Leif grihned, glad of the last-minute inspiration that had made him change the spear to abazooka and furnish Odin with a load of trick shells for it. It had taxed the abilities of the dwarves, but they bad succeeded

Out of the giant group, a band moved forward, headed by something out of a nightmare, "Fenris Wolf, the Gaping Wolf," Thor said, but Leif had already guessed it. It looked something like a wolf, though it rose to a height of forty feet at the shoulders, and had teeth five feet long; dringing a raw, green fire of radioactivity. Leif sbuddered, looking for the other monsters. He saw a great Tosser, The bomb bad come in bandy; creature, looped into coils, projecting that thing had seemed ugly enough a head larger than a twenty-foot boat, but it wasn't a true serpent, since it sprouted hundreds of short; stufiby legs and bore a dozen arms, all loaded with weapons. The third was harder to see-something that seemed to flame and blaze, in outlines that the eyes refused to admit. That must he

> He shuddered again, Somewhere in his mind, a dim memory of things like that in Niflheim tried to clarify

the dog Garm.

itself. Thor nodded, "The fire giants, being more terrible than the frost giants, dragged three creatures from Niftheim long and long ago-so long that they believe Fenris Wolf is the father of them all. They are dreadful opponents."

They were more than that, and Leif's admiration for Tvr increased as he watched the god drive his forces against the thing called Garm. Then Thor velled, and his own band was moving toward the Serpent, Thor handed the reins to Leif, checked his hammer, gloves and belt, and dropped over the side, running forward. The band behind the Serpent came forward with a rusb.

Leif's eyes dropped to the long blades projecting from the axles of the chariot, and he boped the accounts he'd read of the Egyptian use of them were true. It had been another last-minute idea. He whooped at the goats and let them go all out fairly sure that their armor, built like his own, could take the first encounter.

At the last moment, he swerved, dug deeper into the protective front of the chariot, and shaved down the side of the giant ranks. There was a series of grinding jolts to the chariot motion now, and a bowling above that threatened to break his eardrums. He came to the end of the rank of giants, stealing a quick look back. It seemed impossible that so many giants could have been robbed of their legs in that one brief passage. The blades at the sides really worked, and the old Egyptians had been smart boys.

The giants were swinging toward him now, though, and he cut around their rear, barely shaving through as they tried to close up. This time, while they were swinging to face him, he cut up the other flank, catching their legs from the rear before they could face him. He came erect and began tossing grenades into their ranks. He

shook his bead at himself, wondering how he could take it with the same attitude as butchering time on the

farm.

The giants lacked discipline-but it was nothing compared to the einheriar. Some of those were standing off at the side, happily swinging away at each other, as if they were back practicing in Asgard! Leif let out a velo and was in among them, trying to bring some order out of their behavior. He indicated the grenades, and they began picking them up and throwing them toward the giants. Half didn't explode, for want of will, but those that worked helped considerably. Leif swung back.

And a grenade from his own einheriar hit the hack of the chariot, knocking one wheel to splinters!

CHAPTER XI

FIF HAD begun jumping at the sound of the explosion, and he landed with a jolt that tested his body and found it unbarmed. He dived to the goats, swearing again at the dumb heroes, and began unhitching the animals. At a swat from the side of his hand, they went loping off toward Asgard and the stables.

Fulla yelled from high overhead, and Leif waved up to show he was doing all right. She dropped a rain of grenades into the ranks of the giants nearest him, and went wheeling back for more. At that rate, she'd be their best warrior, and safe enough in the bargain. Leif struck off at a lope that covered some twenty miles an hour at the reduced gravity, refilling his belt with grenades that bad not exploded, and avoiding the thickest clumping of the giants. But it was necessary to stick somewhere near the einheriar, and try to keep them from straying, and he found bimself bottled suddenly, with one of the

heroes. Leif's grenades ran out, and there, was still no opening in the giant ranks. He motioned the hero and went leaping in, ducking in where their grouped legs kept them from getting a good swing at him, and where even poking with a spear was hard. Beside him, the hero was happily taking care of those that Leif managed to drop, with a cooperation unusual for one of the einheriar. Then Leif came onto an unexpected group of grenades, and began throwing them as the giants broke away. One giant threw a grenade at Lelf, but the detonators were not attuned to giant minds. He caught it and fired it back -to remove the last of the near giants.

The hero grunted amicably. "We fight now, huh?"

Leff strangled over the words, butmanaged to keep his voice cain as he sent the hero after some giants in the distance. Still, if they were all like that one, it wouldn't be too bad, giants and lepted down the field, wondering if there was anything in Lee's theory that a man who was both cold and unafraid couldn't be killed in battion for survival. He leaped ten feet the back toward this either ian.

"Ho, Lefi!" It was Thor, apparentby wading through giants, his hammer a steady tattoo that left a string of booken giant leads, while he was swinging a big battle-ax with his other around him like comrect rats making a last desperate bid, and went in from the outside, scattering them again, to give Thor room for his hammer work. Actually, it wasn't too much different —except, in reverse—from his externed to the companion of the companion of the property of the companion of the companion of the recognition of the companion of the companion of the recognition of the companion of the companion of the recognition of the companion of the companion of the recognition of the companion of the companion of the recognition of the companion of the companion of the recognition of the companion of the companion of the recognition of the companion of the

hadn't been able to hit one of them, though Loho had been killing them right and left. They had been much too small for Leif, just as he was for the giants.

"Garin gost Tyr," Ther announced sauly, swinging the nar our Leifsh head to chop off part of a giant, and reaching out for the returning, hammer. As he did so, he spotted one leg temptingly energy and a wivelded on his hip, lecking a leg into the gatarty, where Leif could late care of him. "Though Garm died after, from the damase Tyr's one sur hand dene. And you've proved better than Friego or the nors, since I've Hilled the Middens Serpent and Odin has a tooth of Feertel Wolf as at robot of Feertel Wolf as at robot of Feertel Wolf as at robot, Where is Lev'l.

TEIF SHOOK his head, and hacked against Thor as three of the giants came charging at them. He barely caught the spear on the slant of the caught the spear on the slant of the stop it. Even then, it seen a surge of slan up his sare. He had noticed that it was getting harder to dodge and save hinself, as the glants grew actual states of the spear of the goods. And he was having to watch himself, to make sure that his success didn't make him careless; Thor did it by pure conditioned reflex, but did it by pure conditioned reflex, but

did it by pure conditioned relies, but he couldn't risk that the field; there was a piercing hall, and a group of the valkyries and goddenses came swarning out, armed beavily with greades, and instent on finding glasts greades, and instent on finding glasts greades, and instent on finding glasts the ticle back to a condition of glasts. thilling, rather than war, and the glasts began to retreat. Some of the better einheight worked more smoothby with the women, and there were efficiency. The normal cinherjar reefficiency. The normal cinherjar remained more of a menace than a help. however; the fighters were always in danger of getting a homb in the back from one of their own supposed allies.

They found a lull in the action and began pulling out hunks of the plastic underarmor, shaking sweat from his body with it. Leif tried to belp him, so they could get back into the fight sooner, and most of it came out through openings in the armor. They were pulling the last away when Loki seemed to materialize out of nothing before them, trying to keep up with their questions: there was no good way of estimating the battle from the

field

"Lee's collected five heroes who seem to have some gumption, and he's got Geffun and a couple other Asynjur freighting grenades. He's doing more damage to the giants than any group-And we're doing miracles, thanks to the grenades and the hombs that killed off the giant reserves. But we're losing, hadly, They hold most of the field, except around the entrance to Asgard, and they're closing in there, Even if every hero kills twenty of them, they can still beat us. The dwarves are hauling in the grenades, - now. And Sudri and a bunch of volun-

teers are right in the fight."

nades. A giant suddenly caught one dwarf. Leif saw it was Sudri, and groaned, but a second later, the dwarf dropped back, spitting, while the giant's hand dropped beside him. He darted forward and grabbed a leg of the giant, his mouth working, before an eddy of battle cut off the sight. Leif stared after the dwarf, and then jerked back as a flicker on bis shield caught the corner of bis eve. He leaped fifteen feet sideways, just

the dirt, the sharp spike clanging off his armor and opening six inches of skin along his leg. Half a dozen giants had sneaked up while they were conferring with Loki

Leif went into action that was now automatic, while Thor's hammer and axe began a thudding dirge. A grenade from a hero went off in the midsection of one giant. Leif grouped and swore, picking himself up from the ground, but he was only bruised, and in a few moments Loki was cutting the ugly throat of the last giant.

But the hattle was obviously being lost; the giants had been cautious of the beroes at first, but now were largely disregarding them and working on their real enemies. "How much longer can we hold out?" Leif asked

Loki. "Maybe two hours, but certainly no more." "And where's Odin? Thanks, Good.

fighting." He finally found Sudri, slipping

back for more grenades, and the dwarf paused in delight, at finding Leif whole. But Leif had no time to waste. "Can you build rails out over Vigridr -higher the better-from Asgard through Bifrost-and store a score of bombs over the field?"

He pointed to a section where a "Sure, hoss Leif. Stuff won't weigh few dwarves were busy hurling gremuch here, and that part of Bifrost is thin. Brace the platforms from Asgard. You want it done?"

"On the double, Sudri," Leif ordered, and headed for the section where Odin was runnored to be avoiding giants as best he could. It was still odd to be able to run a mile in less than two minutes, but bandy. He found Odin in a little time, mixed into the thick of things, with a couple of the valkyries, a hero, and a dwarf helping-the screwiest mixture Leif as a great mace thwacked down into , bad seen, but a surprisingly effective one. The giants were well thinned out by the time Leif reached the group and began helping to clean up the tag ends.

ODIN LOOKED good now, more vigorous and youthful than Leif had seen bim before, hut the worry in his eyes showed that Loki had been in touch with him. Leif wasted no time on preliminaries. "Can you order a complete retreat, and have it work?"

He accepted the god's doubtful not and braced himself for what he haded about the plan. The reserve einheight were certainly no use to even themselves—actually less a live than mythical zombies. But hecause the elf-shapinsy had once housed the complete was a sooil, or as symthetic as the bodies he couldn't know—it bothered bedies he couldn't know—it bothered had bedies he couldn't know—it bothered assertifice. And Old have somethow, four of all his heroes.

To be dead of sending, those reserved in to their, save death didn't sit will with abe Vulfather's consedence. But with a bet Vulfather's consedence, But he nodded at last, recogning the harsh laws of military necessity. "No usay, Left, there are many "May one less than beasts. Incoming of the pleasure nor pain. If those will suffice, you have my permission. And here, we shall try do organize for the where, you're needed, I can do, what is needful here."

Leif headed for Bifrost, still trying to avoid further fighting, now. He ducked around a huge corpes, leaped, over a pile of sepastated einherign, where a giant foot had trapped them, and dived rapidly under the falling sword of a smaller giant. Then he was, clear and searching frantically for Fulla. She caught his wave, and Hooft-Tokser plummeted down, to touch the earth lightly, and dart un again as

Leif (lopped wearily behind Fulla. Her band squeezed hard on his wrist, but she made no comment, and he was too exhausted to waste words. He found a scrap of the hit of applement all bad been given and swallowed it, as they flashed through Bifrost. Helped enough to let him jump from the horse and move briskly to the workshors.

workshops.

The description of the state of

It was amazing how time was slipping away. Loki was waiting for bim, s with Heimdallt at his side, as Leif a stepped from the wall. The vain god was now blood-spattered and filthy, a minost unrecognizable, but the horn s in bis band still sparkled like a perclosus jewel. "Thu to sound retreat you've ready," be announced. "But wou've ready," be announced. "But wo've lead the sacrified einbertap.""

Let frowned, shaking the colwecks from his brain. Of course there would have to be a leader, since the here couldn't even remember orders more than a minute or 50, unless they could simply see the acts of a god in front of them. They needed only brains council to keep the glants from enaliing it was retreat, and not replacement, for five minutes, but that was beyond their ability. He'd overlooked that need.

· But now he faced it. "All right; it was my idea."

"Don't be a fool," Loki snapped.

"It means death."

"It means the same death to anyone," Leif pointed out, "And I can't ask someone else to die for my plans."

Fulla made a low moaning sound in her throat and slumped to the ground. He smilled at her grimly. The month had been longer than they'd expected, and once Ragnarok was over, he could only be a source of trouble to her.

HE MOTIONED Heimdallr to up, walling as 1 fee thousand ban-shees were attending the wake of the last sidshee in the world. Heimdall dropped the horn with a scowl, and stretched out his hand. Left started to meet the gesture, only to feel the god's am push suddenly against his chest. Something caught behind his knees, and he went sailing over the

kneeling form of Loki, victim of a trick older than even their traditions. He was on his feet almost instantly, but Heimdallr was running toward the apathetic ranks of the oldest heroes, waving them forward. They started mechanically into Bifrost, with Heim-

dallr at the front.

"You never know about him," Loki muttered slowly. "But in a way, he was right. You did your job bere, and more. He'd made a mistake in not catching those early giants drifting

in. Now he has to undo it."
Fulla was with them as Leif and
Lold steeped along the rails—into
Vider again, muching the retreat.
Vider again, muching the retreat.
While the retreat of the

self, and he got them through undivided and into motion against the 't glants. Odin waved, and gods, valky-"ries, dwarves, and heroes with enough

intelligence to obey pelted for Bifrost. The glants hesitated, uncertain about the strange maneuvers, and even gave ground a little before Heimdallr's force. Then they began a forward movement again, but still cautiously.

movement again, but still cautions!, Letif felts constitute to the his arm, and turned to see Hoof-Tosser deltactedy steeping along: the rails, rubbing his 'muzzle against Left. Apparently, he'd gotten tired of being alone. Left grabbod the horse and putled his forward onto the platform, noting on the saddle. Then Left was mounted on the saddle. Then Left was mounted and urging Hoof-Cosser into the air. At first, he could see no sign of Heimdall; until a toppling gist

s At first, be could see ho sign of Helmdallr, until a topping giant a showed the god briefly. Left urged Hoof-Tosser down, his word valvinging, for a giant neck, and continuing on to another. He are wishers running up, and the state of th

The weight of the god and armor was too mucu for Leif to heave up to the saddle, but Heimdallr caught a stirrup with his other hand and gradually floundered up behind Leif. Below, the last of the forces of Aszard were retreating through Bifrost, while the giants were pelting across the field. disregarding the hopeler einherfar. Leif yelled to the dwarves as Hoof-Tosser leaped through Bifrost and dropped down beside Loki and Fulls. The dwarves were darting back as Leif and Heimdallr dismounted; the god nodded casually, and reached for the mirror. Leif knocked it from his hands, just as a stabbing beam of radiance lanced from it, and Bifrost hecame visible for miles of its length, arcing and leaping in rainhow fire. But it held hack the shock and lethal radiation. Twenty of their strongest

U-235 bombs going off together weren't very gentle. Leif reached for the mirror, and they could see no evidence of life on the little world, clothed in decaying radiance. The giants were no longer a danser.

ODIN AND Thor found them some time later, still unsure of this victory that had replaced certain doom. Leif was dead inside with reaction from the flux of emotions he'd never known he was experiencing, and he could sense Odin's mood. The god stood looking down at Augard with-

out seeing it.

at Yegdrasil."

"Five gods, four goddesses, eight, of my calkyries, four-fifths of my valkyries, four-fifths of my valkyries, four-fifths of my valkyries, four-fifths of my valkyries, a test on the council for his work... hut we won, Gna is dead, and Hoof-Tosses is yours, Leif. Figh has killed hersell, since the prophery latel. Tyr and UIF. BU I have still my three strongest sons—Heimdaller, Thor, Leif. My heart in full. Let Let follows us; he got safely from Vigird's, Now I must reckon accounts

The gods, except Loki, drew away, just as Lee reached Lelf, too tired to do more than nod. Heimdall' looked back at the ralls for the bombs. "A good trick,"" he commented. "A hetter trick than Leif's others. With it, we can huild through to Midgard; we can result to add to the control of th

Leif sat frozen as the gods moved out of range, realizing slowly that Midgard was earth! Finally he turned to Lee. "Are you coming back to earth with me, Lee?"

Fulla gasped, drawing a slow shuddering breath. But Lee nodded, grin-

ning suddenly. "It's going to he pretty fossilized around here with no war, Leif, And Gefjun is getting the darnedest ideas."

est ideas."
Fulla stood up slowly, and the

smile on her lips seemed almost real. "You have to go, Leif."

He climbed to his own feet again, sighing. "It will he hell without you, hut I can't betray a world—even for you."
"Then I'll run ahead and not in-

terfere. You'll have husiness with Lee and Loki." She raised on tiptoe and kissed him softly, making no attempt to linger or stir his emotions. "It was a perfect month, heloved."

Then she moved down to the path, neither too fast nor too alow, her body set to a masterpiece of music. Left watched her go, trying to photograph, the strength and, fineness of her-on his mind. At last he turned back to the others.

Lee looked uncomfortable, hut the sardonic smile was etched deeper on Loki's mouth, though, his voice seemed husky. "How are you going to protect earth, Leif? Going back won't do it."

"No." He hesitated, then shrugged.
"I have a hoon from Offin—and I'm
claiming it against all Augard, for
today, I want the right to take all the
apples back to earth! Let them sleep
a thousand years—it's hetter than
being dead forever—and by then Bifrost may be completely closed from
earth here. But it will stop them."

"Unless they stop you. Well, Pill put it up to them, Leif. Mayhe I can get it for you—unless they decide to drop all of us into Nifiheim for the idea. Be seeing you."

He started after the others, the grin stronger on his face, and Leaf turned to the shops of the dwarves. He still had some instructions for

Sudri.

CHAPTER XIJ

Citi Inte

DUSK WAS settling on Asgard when two figures approached the shops. Lee was pacing about, but Leif sat quietly smoking, while Sudri stood watching with mournful face. The figures drew nearer, and turned into Thor and Odin, but Leif made no effort to rises.

Odin came up first, looking down at the man, and his shoulders were tired. Gravely, he dropped a chest to the ground at Leif's feet. "The apples are all there, Leif, my son, Lok's has preached from Jounhelm to vanished Vanaheim and back, to no avail. But no man or god may say that the word of Odin is an empty thing. The Aesir pay their debts."

"I'm sorry, father Odin," Left said slowly, rising at last. Something in the grave old figure had made the acknowledgment of relationship more than a formal salutation. "I had no wish to add another of your sons to the list who are traitors to you..."

"Nor have you." Thori: voice was brugue, and as low as it could ever be. "We beard Heimstall" words: a man or god betray his roots, he is a traitor; when he protects them, nothing can make a traitor of him. By Yini; If you didn't chain us, Niffeitin Anyhow, what is another thousand of your years, when we now have a thousand times that to live? Take the apples, Leif Odinson, and Take the apples, Leif Odinson, and considera."

Leif picked them up slowly. He'd expected everything but that. Asgard would always be a place of surprises, and not the least of the amazing things was the length of Thor's speech.

things was the length of Thor's speech.
"Sudri knows how to care for the
tre while you sleep," be said, "And
he may even be able to develop more

trees. It is a possibility,"

There seemed nothing else to say, He strapped the apples to his belt, feeling strange without the armor beld gotten used to. Then he lifted his bead and whistled. An answering nicker came at once, and Hoot-Tosser dropped down beside blim, nuzzling him gently. Leff gave Lee a band up onto the bare back, and prepared to mount.

Odin dropped his hands on Leif's boulers. "Wherever you are, HoofTosser will come at your whistle-tos carry you about on Midgard, or to return you to Asgard. We'll be sleeping, but there'll be room beside our dreams for yours. I shall look for you when I awake."

Thor came forward, to shake hands gravely with both twins, and to lift Left up onto Hoof-Tosser. Then the two gots turned and moved back down the trail, and only the sobbing wail of Sudri was left. Left looked over Augard again, savoring all the good about it for the last time, and hopping to cache a glimpe to the last time, and hopping to cache a glimpe with the saving the saving and the saving the savi

and patterns of Bifrost.

"Make way for the Svensen twins,"
Lee called out.

But Lefi shook his bead. "For Les Svensen and Lefi Odinsson," he corrected, before the swirls of Bifrost blotted out further words. It was easier this time, since be'd left the automatic with Sudri, and Hool-Toeser moved forward at a steady rolling gait. Then that cleared to a sudden swoop, and the horse was landing, while bright sunlight poured down on them. They were back on earth.

LEE WAS off at a bound, staring about, and Leif slid down slowly. They had landed in a small clearing in the woods, near a trail that led to the house not two bundred varies.

away, almost as if the horse had known enough to avoid publicity.

"Home, sunlight, people-and some real whiskey!" Lee cried, stretching and sniffing the air, with his snirits

bigh again. "Me for the whiskey. Coming. son?"

"Be along in a minute." Leif answered. He was vaguely conscious that Aseard had made him older than his brother, so that the old familiar relationship of admiration toward Lee's glamor was now almost a fatherly one on his part. He grinned faintly as he watched Lee hopping over the little obstacles on the trail, and started out.

Hoof-Tosser nickered again, and touched him with a nudge. Leif turned back, and his smile was fuller, "Go on back to Asgard, Hoof-Tosser: this is a lousy world for horses that can run through the air, above anti-aircraft guns. But sometime, I'll whistle you down again, and we'll take a ride at night when it's safe. How's that?" The horse blew its breath sharply

through its nostrils, shook its head, arched its neck, and was suddenly lifting and vanishing in a rainbow of color. Leif turned up the trail, coming out on fallow land. He stooped and smelled the dirt, rubbing it in the palm of his hand. It should have been plowed and planted. And the dead wood back there should be trimmed. There'd be work enough for bim.

"Hi, Leif!" He looked up to see Faulkner working on a broken fencepost, with Summers talking to him. There had been no real cordiality in the voice, but there was acceptance. "Heard you'd be back soon. Be over to get things straightened out tonight. Okayan

"Fine." Leif told him. He climbed the back steps, pushed through the screen door, and was in the old, familiar kitchen, with the warm earth smells of an honest dinner cooking on the stove, It was....

She turned toward him, smiling with a hint of tears in ber eyes, and pulling the apron up over her head. Then she stood there, uncertain, waiting for his reaction.

"Fulla! Oh. vou fool!"

She was in his arms, half-crying, half-laughing, "Fool yourself, Leif Odinsson! Did you really think I'd leave you alone down here-when I could ride Hoof-Tosser, too, before you needed him? There'll be a weekmaybe two-before I change. And I can always go back then!"

Then she cried out as she felt the coffer of apples at his side and was tearing them out, counting them,

Loki's voice drifted in from the doorway, and Leif looked up to see him standing with his arm about Gail Faulkner, grinning at them, with Lee in the background. "Fulla couldn't walt to find you'd have the apples. She barely waited for me to tell her where to go. But while your apples can keep us going-it's all right, Gail, I'll explain later-can keep us for a while. I've got better news, Come bere."

The sly god picked up one of the apples and moved into the dining rooms, munching on it in total disregard of the precious time it represented. He pointed out into the orchard.

"I told you I found out about grafting from that book! Do you think I wouldn't remember the years we slept? I had experts working on some cuttings the next day. Ten trees out there, all with Asgard apples!"

Leif looked at them, shaking his head, "They're blooming."

"Umm. Have an apple, Fulla. We'll have enough till they bear I guessed they might bloom. They're on earth now, and plants are supposed to bloom every year here. So they bloom-and so can we,"

"But " It was coming too fast.

and Leif could no longer adjust his ideas to fit the facts.

I OKI TOSSED the applé core causeably out onto the grass. "Don't worry, I promise to take none back to Agazd. But until I have to I, I don't intend to go up there for that type of aleeping, either. Hey, Lee, did you see the newspaper? They're buildings rocket ships for the planets—nome-body found a miracle fuel. Come on, Till alow you the paper. I've got an intended to the paper of the paper of the good of the paper of the paper of the good of the good of the good of the paper of the good of the

perts know. Come on, Gail."

Leif heard sudden enthuslasm come into Lee's voice, and a sudden babble of immature plans of getting into the crews and losing no time in getting a borth on one of the rockets. He flashed Loki a grateful glance; and led Fulla out into the yard and to-

ward the orchard. She linked her hand in his, her

figure slim and golden in the sunlight as they stood looking at the little trees. Then she dropped down, running her fingers through the soil, watching it as it packed into a loose hall in her hands.

"We'll have to dig up a preacher, Fulla," he told her. "It wouldn't do

is to have our children think we were fallen gods, just because we didn't go through the right formalities. Think you can stand being a simple farm-'t er's wife?"

"Oh, Leif! But the rockets..."

He shook his head. "You've got me wrong. I'm not a hero, honey. I'm just what I said—a plain, old-

just what 'I said—a plain, oldfashioned dirt farmer. Mind?" She showed him she didn't. Well, in a way, it was good to have

been a hero. Every man should have a chance to win his girl, kill a few giants, and he a god for a while—and most men probably could if they could forget their fears long enough to try. It was comforting to know that those fears were gone, and that he wouldn't have to dream shout questing for grails or going to other worlds, envyine those who did it.

But it was better to get back to the things a man really wanted.

He settled down onto the grass beside her, letting the sun shine on them, relaxed and content. Then he grinned.

"Or mayhe I am a hero, of sorts-Giants are easy enough to kill, and they stay dead. But now you take quack grass..."

THE, END

THE CORNEAL LENS

OBDIVARY coverages may be evenically a thing of the next. The recent starting work with "contact lenses" has many recode and as a consource those who can afford and adopt to them, are unamany recode and as a consource those who can afford and adopt to them, are understanding with coverage for the starting the starting of the starting the starting of the starting the starting of the starting the starting that the starting with the starting that the starting the starting of the starting that the

sisting of a thin can of plants or glass that the which is no larger than the diameter of a cigarette and which rests over the cornes of the evells, being held in position by a capillary attraction and the carvature of the cornea. Inconspicuous and easily removed, tokerable for long periods of time, these new corneal lenses are the eyeqlasce of the future.

It is perfectly possible to realise that in

It is perfectly possible to realize that in the future we may see people showing no ovidence of common ove deficiencies at all —they'll be wearing thin corneal shells with no ope the wiser!

TO THE VICTORS By A. B. Hickey



Man stood by, reapons hald ready for any possible action by the Martian



Earth. And yet, it seemed that by taking the planet, they were actually being absorbed . . .

In THE faint light of early dawn, by with the wind still blowing cold I for the polar caps, the rocket I haded in a shallow valley of the dead is ea-bottom. From hatches on both, sides of the ship twin files of men issued, guns ready, and quickly ranned to polatic of vantage. When the protective corbins of vantage. When the protective corbin was complete by the cantain the care emerged, let by

Quickly the captain unfurled a large, varicolored flag handed to him by a junior officer. A single thrust was sufficient to drive the half deep into the soft sand. As the wind rustled through soft slik, the captain

spoke:
"By the authoriy vested in me

by the federated peoples of Earth, I do hereby proclaim this planet, Mars, property of Earth, and all its lands and peoples subject to the laws thereof."

thereof."

Only the whisper of drifting sands replied. The captain shivered, as though the wind had crept under his insulated Jacket, and spun about to re-enter the rocket. His men followed him, steponies, briskly. The hatch

"All right." The captain's lean, hard jaw jerked at the navigator. "Get that numbo-jumbo in the log. On this hour, this day, this year, in the sight of God and his crew, etc....."

"Yes sir."

slammed shut.

While Harbison scurried forward to make the entry the rest of the men gathered around the captain. In the narrow aisle of the completely functional vessel stood the officers; the enlisted men hung from the tiers of bunks. The captain's sardonic gaze

touched them all briefly.

"All right, It's official, We've offected a safe landing. We are the first men on Mars, Anyone want to

cheer?"
"Yeah," a man said tiredly.

Captain Stater's mouth thinned to a long line. "A month's pay for answering a rhetorical question, Man-

A wave of angry sileace broke against the tall, hard figure—in the blue uniform, but left him unaffected. He had not been given this command on the hasts of his popularity with subordinates. Popularity, be bad always felt, was the small change from a hroken authority; it made a pleas—ant, lingle but bought nothing.
"Mr. Comenty—" bis glance

"Mr., Connerly—" bis glance flicked at the stubby biochemist— "you may proceed with your soil samples. At any sign of danger return at once to the ship."

The little civilian stared at him." But what about the atmosphere

"But what about the atmosphere analysis? I'm supposed to—" "You were outside a moment ago. Did breathing nauseate you?".

"Well no, but--"
"Then it's good atmosphere."
He turned to more important busi-

ness. "Lieutenant Meers. Take ten men with you. You will scout the area..." Slater consulted a chart, "...six degrees due north of the So-

laris. Should you—"
"Does that include that town?"
Meers interrupted. "Sir?"

Slater's eyes measured the lieutenant and found him six inches taller. "No. I meant you to scout for fossils, or pretty sea shells."

Meers flushed and the captain resumed: "Should you find the village inhabited, make friendly overtures to the natives. But at the slightest sign of bostility you are to take decisive action. And if I may anticipate your question, Meers, decisive includes shooting to kill. That's all."

GLIMPSED from the ship as it gilded toward a landing, the town bad shimmered ghost-like, trailing an ectophasm of rising mist from the empty sea on whose shore it stood. A small town; not more than half a hundred houses, Slater had estimated.

Toward it, his dark features still tight with anger, Meers proceeded warily. At his rear eight men formed a diamond; in the center of the diamond two men lugged heavy recolless weapons. They were all tittel; each of gravity had been more than counteracted by the two feet of the counter and the standard of the counter and the standard of the counter and the time are to the counter and the time are of the counter and the time are of the counter and the time are of the counter and the counter

Meers flung bis right hand downward and the diamond came to an instant balt. The men watched bim climh a final hummock.

In sunlight the town had a crystalline quality, low octagonal huildings arranged hexagonally. Meers studied it awbile; then, twisting around, be signalled one of the beavy-weapons men to him.

. "Cover us from here," Meers or-"
dered. "If anything happens, try to
give us a chance to duck. But don't
wait too long."

Now, with his last concealment behind him, Meers moved swiftly at the head of a lengthened diamond. Swirling dust, borne on 'the hot breeze, whispered caution in bis ear. But it was too late for that. Besides, Meers had no imacination.

Inside the village it was strangely cool. They moved among reedy trees, cobweh hranches festooned like Christmas trees with green and violet and orange fruit. Underfoot the rosy grass was like fur, like mink the gently waving hedges,

In the gardens curtains of water, like panes of shattered glass, tinkled from invisible fountains to the accom-

paniment of strange music. On eight crystal legs the houses stared eveless. Meers parted a hedge and stepped through it. Two small creatures, the size of capuchin monkeys, lay on the rosy grass, drowsing. Without fur,

without tails, they were the color of newly minted gold. Circlets of golden metal, the size of bracelets, clasped white tunics of iridescent material to their fracile waists. Meers moved. Four eyes, like eight-

faceted sapphires, shuttered at him. Shrilling, the creatures fled, their limbs flickering like golden xylophone bammers; the house absorbed them.

Keenly aware of the ugly weapon snouts that poked through the bedge behind him, Meers stood his ground. He waited only a brief moment. A man appeared in the empty door-

way. Stilt-legged, hone-thin of arm. with eyes like two round typewriter keys sunk in white skin, it was nevertheless a man, At least humanoid, Another figure, slightly more rounded, appeared beside it. The female of the species. Meers thought.

Keeping his left hand on his holstered gun, Meers stepped forward several paces. His right hand came up, palm outward, in the ageless gesture of peace.

There was a pause filled with the shrilling of the two creatures on a balcony above. Then the Martian and his woman stepped down from the doorway. Their own hands came up, palms outward.

ON SLATER'S map the town was now represented by a red circle: About him, in the control room, bis staff clustered. Half civilian, it was therefore by half not of his own choosing.

"You deliberately provoked Lieu-

tenant Meers and that crewman," one of the civilians said. "Why?" Slater regarded him calmly. "To

make their trigger fingers more reflexive. The situation may require a strong hostility factor: I supplied it." "But suppose this town is only one

of many. Have you thought what we may stir up?" Slater had, in fact, given that question a good deal of thought. In the

end he had made his decision on admittedly inconclusive evidencé. He bad radar charts made a year earlier by a robot rocket: the charts showed no cities at all. Yet it seemed reasonable to believe that while the radar might have missed a few towns, it could not have missed every one of a considerable number.

"I'll stick with probability," be grunted. "That might be worse," a man in

a gray suit grumbled. "We might lose our only chance for communication with the remnants of a culture," .

"The time to admire a culture is after you've destroyed it," Slater told. him. "No Custer's Last Stand for me."

"But it may be a superior culture to ours. There may be a life form superior in intelligence to ours," "Precisely. And maybe superior in

weapons. If so, why give them a chance to shoot first?" He looked up as the biochemist en-

tered the room, "Ah! Here's the culture I'm interested in, Soil culture. Well, Connerly, will anything grow in the stuff?"

"Anything!" Connerly chortled. "Probably been fallow a million years." Then his face lost some of its animation. "Of course it would take a lot of water."

Slater scowled. "Nice delivery on the death thrust. You should have

heen a toreador, Connerly. That's all." Well, at least the problem of water, unlike the problem created by the appearance of the town, had been foreseen. And with an overpopulated

that problem, these fools could worry about moral niceties! Still thinking about the water, Slater lifted a handset from his desk, If it staved quiet they'd bave to try drill-

ing, unlikely as that prospect seemed. "Captain Slater," he said. "Anything stirring?"

The officer of the watch matched his clipped tone. "Nothing, sir." His voice rose suddenly, "Wait! Something out there!" Slater beard bim cursing his field glasses as they refused to focus quickly enough, "It's Lieutenant Meers and his party!"

"Cover them," Slater ordered. He banged the handset down and paced out a half hour wait, impatience bubbling in him like acid in a vat. Meers must have run into something; otherwise he wouldn't have been gone so long. And desnite his needling of the lieutenant, Meers was a good man. All good men, the captain thought, or they wouldn't be bere; not on this trip.

MEERS PAID him back for the jibe by presenting a completely impassive countenance as he entered the control room, Simply by looking at him, Slater could get no bint of whether the news would be good or bad. "Report," he growled, letting

Meers take the trick. "Yes sir. The town is inbahited, sir. Somewhere around a bundred and

fifty Martians living there," "You made contact?"

"Yes sir." I bad the men cover me-" "Naturally," Slater interrupted.

"Since we heard no firing I assume the natives are friendly." "Well, yes and no, sir." Before

Slater could snap at him again, Meers hurried on. "To tell the truth, sir, they just 'didn't seem too interested

in 110 3 Earth dependent on the solution to . The captain's face was a mask of thought. He had made it a two-valued

proposition, friendly or unfriendly. Indifference had not seemed even a remote possibility. And despite Meers' opinion, it still did not. The thing smelled slightly as far as Slater was concerned.

"You mean you swallowed that and strolled off, losing us the advantage of surprise?"

His scorn was withering but Meers stood his ground. "In view of certain facts I decided to suspend judgment. Of course I left balf the men behind to cover the town and make sure no-

body trailed us back here." "You should have left all ten," Slater grunted, "But what are those facts?" "First, they've got some kind of

air conditioning. Not just the houses, but the whole town. Second, there's an abundance of flora, including fruit trees." "Then there's water!" Slater's voice took on a scalpel edge. "I ought

to break you for taking a chance like this!" He spun around and lifted his handset, intending to order immediate action, but Meers interrupted. "Just a second, captain, They've got

water, plenty of it. But it flows out of plain sheets of crystal quartz, or something like quartz. It's amost magical, sir, and I figured we'd better not take a chance of damaging anything until we get an idea of how it works."

The captain rubbed bis jaw, Meers

was a good man. If they got through this he'd recommend him for promotion. But he made certain his voice did not hetray his thought.

did not hetray his thought.
"Did you parley?"
"Just a few signs."

"We'll have to improve that situation," Slater said. He turned away, then remembered Meers was still standing there. "That's all, lieutenant."

WITHIN a week the captain had a late supper in the town, in the very same house which Meers had first approached. It was bis first visit to the town, and Slater disliked

the idea of being in the enemy's camp. But drilling had failed to tap water, and time was running out. He was as impressed as Meers had

are most an impressed as indeers had been. The house was comfortably warm, so were the gardens and the town itself; yet there was no visible heating equipment. Sheets of waterstill cascaded from the crystal quartz, hut now the water steamed in the

night.

Shater had lit a cigar and then let it go out. The heavy smoke had van-ished instantly; there was no enjoyment without the visual, like smoking in the dark. He leaned back now, gossamer supporting his weight gent-

ly, and through the crystal roof saw Earth riding the night sky. His host rolled an orange fruit through a small trough and handed it to the small golden creature on his shoulder. Sixteen slender digits accepted it, brought it to a tiny mouth. The next fruit went to Slater, Gingerly, be bit into it; tust hot enough.

it tasted like steak, medium rare.
"Very good," the captain murmured. "You seem to enjoy not only
the luxuries, but also the more pleasant necessities."

His host thought about the remark. A week with language disks and the untiring efforts of Slater's linguist, hrought along for precisely such a contingency, had taken the Martians well heyond Basic English. "We have what we need," the Martian said.

well heyood Basic English. "We have what we need," the Martian said.
On the woman's shoulder, between hits of fruit, another of the monkeys chattered. Slater wished it would stop. He had some tricky terrain to navi-

gate.

"Have you lived here long?"
"All our lives." The black eyes with
their irregular white irises might have
concealed bumor; Slater couldn't tell.

s "What is your planet like?" the Martian asked politely. d ... Slater gave him a vague description of Earth, leaving out everything

of real importance. The Martians seemed not to listen very attentively. Sparring, Slater thought. He got down to cases. "That's an interesting device." He

pointed to the trough on the table.

"How does it work?"

"You put things into it. They be-

come hot," the Martian said.

Damn them, they were sparring!
But Slater did not let his exasperation show. He relit his cigar, using
the motions to dispel some of his

g anger.
, "Very interesting," he said, not quite keeping the dryness out of his tone. He put his thoughts on the sheet of crystal in the garden. "Also the fountain. That works very cleverly," He half anticipated the answer, but

is to make matters worse the female.

Martian opened a panel in the wall

and let a pair of violet birds into the

room. Between the ungodly chirping

of the birds and the shrill chattering

the first mind
lurch.

"Yes," the Martian was saying. as"Very cleverly. In the beat of the day, the water runs cold. At night the watik, ter is hot."

"But where does the water come

from? Do you know?"
"From the crystal."

ANOTHER few minutes of that, Slater thought, and he'd bave hlown his damper. Pacing back through the bitter cold of the night,

he let some of his anger find release. "Damn cute, aren't they?" Around him, his officers growled

assent. There was silence after that as they bowed their heads against a rising cloud of dust. Then the Solaris loomed ahead and for a while they were busy removing their insulated suits, shaking the powdery sand from

themselves.

"Damn!" Slater cursed again, rubbling bis cold hands together. "Figure the cubic area of that town, then realize the difference in temperature between the outside and inside. Imagine the power supply they must have! But if 7d asked them bow they kept the town warm, they'd have said, "with heat!"

"May I say something, captain?" inquired Berthold, the linguist. "It is possible these Martians are quite unintelligent. Notice bow simply they

live."
"That's a sign of intelligence, I'd

say," Slater grunted.
"In this case I think not, and I've

spent more time with them than anyone except Lieutenant Meers. No, I'm reminded of the primitive Polynesians, especially by their childish devotion to their pets. They carry those little animals everywhere, you know, actually treat them like members of the family."

Slater's lips curled. "And these primitive, stupid Martians just accidentally, I suppose, invented all those thines? No. I won't but that."

things? No, I won't buy that."

"What if they didn't invent them?"

"What if—?"

"Precisely. It's obvious, hy the resemblance between the Martians and

those monkeys, that the pattern of evolution here has been much the same as on Earth. Eventually there emerged a super-race, which built this town with 'its wonders and perhaps many others, And then, as super-races will, proceeded to destroy itself.

"It's quite logical that the only survivors should have been those whose nervous systems were least sensitive. They simply moved into the vacant village and enjoyed its comforts, without at all understanding how anything works."

Slater grunted. "Quite a theory."
"Yes, but supported by observation. For instance, they have no con-

toon. For instance, raby nave no recept of God, as we have I recept of God, as we have I received from the received from

The captain seemed to be only half attentive as Berthold spoke. His fingers toyed with the chart on bis desk, tracing over and over the red circle which was the town. At last he picked up a pencil and with two quick

strokes put a cross within the circle.
"Well?" Berthold demanded.
"Doesn't that seem logical?"
Slater plared at bim, annoved at

the interruption to his own thought. "What's the difference?" Then, as Berthold's eyes went wide, "That's right. It doesn't make a dama hit of

right. It doesn't make a damn hit of difference!" With a quick yank, Slater brought

a speaking tube down to his mouth, His tone as he spoke was that of ir-

revocable decision.
"I want a general issue of small arms. At once! Break out portable

arms. At once! Break out portable floodlights. All hands prepare for immediate action!" HE HATED the necessity for explanation. His was the command: that should have been sufficient. But it was not. These incredulous and horrified stares were a silent demand for justification of his plan, and he would have to justify it.

"Perhaps you gentlemen have an alternative solution. Shall we pack up and go home?"

They souttered, all trying to talk at once. At last one of them succeeded in shouting the others down, "Surely there must he another way! If you accept Berthold's theory-"

"Suppose I do. Or suppose I don't. The Martians either don't know the answers or they're simply not telling. Which means we'll have to expropriate their property so we can subject it to analysis, or use strong methods of persuasion. Either will he resisted."

"But this is hrutal, inhuman!" Slater remained calm. "Of course. Whenever man meets an ohstacle in

verse he removes it hy heing brutal and inhuman. I'm only following precedent." "But to murder innocent people

who haven't lifted a finger against "Not people," Slater reminded him.

"Martians." He saw that he had scored a point. After all, they were only Martians.

Looked at in that light, there was a difference. It would obviously have heen foolish to let one hundred and fifty Martians stand in the way of the federated peoples of Earth. "Good," Slater said. "Then that's

settled." He was already zippering his insulated outer garment, glad that for the rest he would he dealing with men

who knew how to take orders without asking foolish questions Watching his men file out of the

Solaris, the captain even felt a surge

of pride. These were Earth's finest. every man hattle-hardened, a perfect fighting machine equipped with the hest weapons of an advanced civilization. Marching over the cold sands hencath the twin moons of Mars, they symbolized to Slater the irresistible march of his race.

He gathered them around him at the last hummock before the town. Crisply, he ticked off their assignments; these to encircle, these to man

the floodlights, these to infiltrate. And, as always, he himself to lead. They went in quickly, like wraiths: into the sleeping town: Drifting

through the furry hedges they made no more sound than the sighing hreeze. On silent feet they slipped into the houses, through the doorways without doors. To Slater, as he stood in a garden,

it seemed as though the houses, even the warm, hubbling fountains, welcomed them. How long had they waited for someone who could the path of his conquest of the uniappreciate them and put them to use? Wait no more, he thought, His right hand lifted; his index finger

tightened on the trigger of his gun. Instantly the town was hathed in the harsh glare of the floodlights. And

without perceptible lapse of time, as he had known would happen, there came from within the houses the hrittle sound of gunfire.

IT WAS over quickly. A few scattered screams Slater heard. He even recognized the word. It was the one Berthold had mentioned: Thlanct. Slater's lips curled. The gods were always too late to help.

And yet with the guns already silent, with the men beginning to appear in the doorways, it seemed to the captain that he still heard screaming. Echoes, perhaps. But too shrill for echoes.

Looking up, he saw the golden

creatures appear on the balconies.
"Why? Why? Why do you destroy

our servants?"

Shrill, like the chatter of angry

monkeys, but still recognizable.

Thlanct, Slater's mind said. The
possibility too outrageous for him to
have considered; that the humanoids
should have been the pets and the

golden capuchins the masters.

And yet it made sense. Like well cared for canine pets on Earth, the humanoids had been made comfortable, had been given enough to eat, even the scrans from the mouths of

the Thlanct. Enjoying the benefits of Thlanct science, they had understood it no better than a dog understood electricity, Strange humanoids had come; to

play, perhaps. They had been treated well, even fed, as a neighbor's dogs might be. But they had repaid kindness with murder...

Our servants! Our pets! There was anger and the threat of retribution in the sbrill cries.

Quite calmly, even aware of bis voice shouting orders, Slater raised his gun and sighted along the barrel.

And something like a wave of rising beat shimmered toward him, rolled over him and over bis men.

Under Slater's feet the rosy grass was springy and soft. He paused lethargically beside the fountain and let the water run over his band and

a shrill voice in his ear told him to move along. He moved. Beside one of the reedy trees he stopped again, this time to pluck a purple fruit which he handed to the golden creature on his shoulder. In

a little while the unconsumed portion was handed back down. Slater chewed it ruminatively. In the next garden Lieutenant Meers also plucked a purple fruit.

Meers also plucked a purple fruit. Across the hedge his eyes met those of Captain Slater. There was no recognition.

And near the shore of the dead, sea-bottom: the rocket ship lay, already half bidden by sand. Over it biased the Martian sun, its requiem was whispered by the dry and burning breeze. But in the town there was cool and quiet.

THE END

OWNIRANGER

* By LESLIE PHELPS *

THE QUEER word "commrange" deactibes a new mirated which has been quiestly spreading itself over the United States without fanfare or moist. An "onmirange" is a special kind of raids states similar to, but veatly incorpoved over, the older conventional radio range used for guiding airplanes.

guiding airplanes, An "omnirange" station looks like a very futuratic dishoan antuna mounted atop from the state of the state of the state of the in all directions. But the unious thing is that the signal sent out is different for every shading of direction so that a pilot knows exactly where his plane is with reimprovement over the relatively crude radio range station which meraly pointed out four directions and not very clearly at

Already there are more than three hundred of these stations system dower the U.S. with another hundred or two to come, effectively blanketing the country in an invisible spider's web of guidelines, Application in forcing contries in also being made, in the not distant future is will be practically, at all times under the complete guidance of the "omnirange" beacons. This system of navientin counted with

This system of navigation coupled with the instrument leading appearatus, makes iterati navigation almost chief's play, plane as drive a car. Eventually also, the omnirange will undoubtedly play a considerable part in any rocket transportation that is diveloped, for certainly, the species interface preclude crude hand margational methods, preclude crude hand margational methods, preclude crude hand margational

THE METAL ARM

& By H. R. STANTON &

SCIENCE FICTION has called the turn on so many accentific inventions that it becomes tedious trying to keep track of all of them. In the last few years we've made a point of almost predicting step by step forth-coming inventions which were hound to follow some of the new discoveries. Cyberneties, the science of the robots. offered some fascinating opportunities for predictions, and it's come through with another result which we expected for some

A robotic, electrical arm has been an-mounced by the maker of large computing mechanisms! This metal shell, equipped with a nylon hand and housing a miracu-

lous array of motors, relays, wiring and other parts is designed to assist the unortunate amputee hetter than has been thought possible. The arm is an incredible, complex structure of machinery which can duplicate surprisingly well the motions and actions of the human arm and hand, The years and relays are housed in the

the power supply consists of a battery car-ried on the hody. The control of the arm in the truly ingenious aspect of the ap-paratus. It is controlled by the toes of the wearer! A sensitive series of switches in worn in the shoe beneath the toes. Motion of the arm is actuated by simply pressing against these switches whose wires run up to the electrical parts of the arm The switches are shellded with small balloons so that ordinary walking can't cause them to operate. The conventional

methods of moving the major part of the arm by straps across the shoulder is still retained leaving the greater part of the electrical apparatus for directly manipu-lating the hand, which up to now has been

the hardest thing to control Naturally this device is only makeshift and is certain to be improved upon, but it is definitely a step in the right direc-tion, especially when one thinks of the crude devices used till flow. The promise of this sort of "human engineering" is

arm slone with the levers and cams, while

+ By CARTER T. WAINWRIGHT +

THE MEDICAL men bring in the twisting writhing child from the Neapolitan slums. Arms like matchsticks, bloated bulging belly, protruding eyes— marked with rickets and malnutrition. the frightened child is gently conveyed to the medical examining room. The kindly Chief Examiner looks at the child. He says one word—"auresmycin."

Three months later from the hospital ward, a gleaming active little hoy steps out. His body is streng and sturdy and from the light in his eyes you can tell he is smart and intelligent. He moves moves hriskly like any healthy youngster. Is this the name child? Well, we haven't reached that stage

yet. The little story so far is only imagi-nation-but the promise is there. Aureomycin, the golden anti-hiotic drug is premisting to do as miraculous things as its brothers have Scientists have discovered an amazing fact—aureomycin is a

growth-accelerator! Given to animals ranging from chickens to pigs, this astounding drug stimulates growth at fantastic rates. . It is mixed in very smal, quantities in with the natural foods. After a few weeks, it is found that the animals are gaining weight-sturdy sound weight, not flabbiness-but fast. In a matter of a very short time, healthy animals are produced, much as if they

were capable of assimilating vitamins at a much faster than normal rate. Furthermore their health is increased and sick-ness so common among domestic fowl and livestock is practically eliminated This means that protein foods will come down in cost as soon at these techniques are applied on a large scale. But the important thing is what it will mean to humans. So often buman beings, vietims of dread diseases fail to recover because their systems cannot rebuild wasted tissues feat enough. Science has long sought a way to

increase the structural rate. Aureomycin apparently offers a solution. As yet the use of the drug is still in the highly experimental stage—but time will take care of that. Also, up until now, the antibiotic drugs, like penicilin and aureomycin have been used chiefly as disease-fighters. Little attention has been paid to their phenomen-al physiological growth effects. Well, that's changed now.

changed now. Malmutrition has claimed many lives— thanks to aureomycin—("auree"—mean-ing golden), it will no longer be an in-portant agent. There is only one distur-ing thought. Is it possible that haman growth drugs will come into use? Is a science leading into controlled human physical size?



As they boarded the vassel they could see the rushing wall of water draw near . . .

By L. Major Reynolds "HE GREAT inanimate lump

stirred uneasily. A dull yellow case instened to its back cracked suddenly and what looked like a tangible golden mist emerged from the mass of broken fragments and stretched its tempous length until the shabe outvered with the strain. The shards fell away and stillness reigned once more. The shape subsided again into the stubor that was almost as deep as death itself.

OG, SON of Og, had forgotten the first law. Intent on his feeding prey, he had neglected to keep watch behind him. Slowly he shifted his position and brought back his arm. The weight of the rock he held would crush the skull of his victim as if it were thin ice. His mouth watered at the thought-taste of the meat. Suddenly the animal flung her bead

high, and with a bound, sprang from her feeding place. Oog snorted his disgust as he watched the speeding form disappear. He rose to his feet just as the snarling roar sounded behind him. He whirled to stare at the great scaled lizard behind him.

Many times be had met one of old Long Fang's clan, and in spite of the many scars he carried, had always emerged the victor. Always in the past there had been some sort of refuge. Here on the plains there was no shelter, and the towering cliff behind him showed an unbroken surface. He tensed, and as Long Fang was almost upon him, Oog gave a great sideways bound, causing the reptile to miss him completely.

As Oog's feet touched the ground he ran with his utmost speed, straight from the cliffs which towered over him. He could hear the heavy snarling of his pursuer, but he dared not turn bis head. He sensed the next leap, and darted swiftly to one side. Again he escaped, amid the frustrated roars of his assailant.

But now, his aggressor was in the strategic position, for Oog was between the reptile and the cliffs. There

was no other way to turn. -The dinosaur, sinuous tail lashing,

and long white teeth gleaming, stood crect above the bapless man, ready for the kill. But Oog still held the rock with

which he had stalked his meat. The reptile drew nearer and nearer,

a faint spark of caution in the dull brain. Oog retreated until his back touched the rocky cliff and, as the scaled monster made ready for the final charge, threw the heavy stone with all the force he could muster.

The anguished scream of agony as one of the great fangs was broken

off, sounded sweet to Oog's ears. And then, he suddenly realized what it meant. A cold deliberate attack against a pain-maddened one, was the difference between life and death for

Slowly be backed along the bottom of the cliff, watching the threes of the creature. It was overcoming the first shock, and once again was setting itself for the spring that would

mean the end.

THEN, AND only then, did Ook remember to call upon bis Gods. Life was a sweet and precious thing which was soon to finish in the maw

of the great thing before bim. Even in his panic, he felt the cliff quiver. His hack was pressed tight against the overhang. Unwittingly his eyes turned upward, and then be was shrinking his body into the smallest possible space. The entire top of the

immense cliff was tumbling down directly toward him. The uncounted tons of stone caught the dinosaur in mid leap, crushing it

to a pulp. Oog stood frozen in his tracks with fright for a long moment. As he climbed over the mass of rubble, he was met by others of his tribe who had heard the mighty sound.

He stopped on a high point, lifted his arms above his head, and intoned: "So do the great Gods spare the life of Oog, son of Og. He who was at the point of death from the claws of Long Fang, has been saved to lead

his people. Here on this spot we will build a place of worship to the Gods who have saved the life of Oog the Mighty!" And from the tumbled rock, the

tribe built the temple for Oor. Many were the sacrifices that were made, So many, that the people grumbled at the waste of slaves. But blood mixed mortar is one with stone.

But · Oog was not · content. More

and more must hear of his miraculous escape from sure death. And, in the telling, Oog's stature grew. At first it was one, then dozens of Long Fangs he had battled. First, it was the Gods, then Oog himself who had caused the cliff to fall.

Larger and larger the temple grew, until the people were hard put to find the time to hunt for food. And some of the mightiest hunters were chosen for priests, who grew fat and lazy in their lives of idleness. But at last everything that could be done

was finished. Then Oog gave the command that had lain dormant in his fertile brain for so long. "Hear me, my people. You have built well, and except for one thing, I

am content. As your High Priest, I will have many priestesses. These are to belong to me, and only to me. Those I choose must obey me in all things, and none of you shall ever show doubt of my judgment. For the Gods have chosen me, Oog, to rule you forever, and I must heed their commands!"

Many were the life mates who were separated forever when Oog made his choices. And many were the mutterings raised against him as he left the motherless babes to the suddenly widowed men

For a few moons the ideal life went on, and then one morning Oog awoke and called for his meal.

There was no answer. He emerged from his temple io a towering rage. He was alone.

The form half owake, and a foot , hield to stir, but the come returned before the movement could be finithed. For a long time it log quietle, then, will a oudden motion, a leg come from the embryonic lump, out straightened for a brief instant. It was drawn back, and again the thing leept pace-fully. Now there was the

faint sound and motion of breething.

THE MAN stood on the top of the

antural dam and watched the sea break against it. In his lifetime, and io the times of his ancestors, it had been a bulwark against the ocean. But since the queer earth-quiver a few days ago, each wave that struck caused a peculiar, shudder in the mighty mass that was more sensed than felt.

An oversized breaker spread itself across the face of the barricade, and the rock visibly shook. The man nodded his bead as if he bad made his decision, then turned aod walked down the opposite side, into the valley below. As he went, he thought over the things he might tell his neighbors and friends, about the actions of the protective barrier that once was as steady as the land itself.

He looked over the green and smiling land below him as he went, and frowned at the fruitfulness of the fields. If what he dreaded should happen, there could be no more life in the great valley, but only death and destruction.

As he entered the village, he was greeted by the people with respect, for he was loved by all. He walked on to the center square, and turned to face them.

"It bring you evil tidings," be said showly, "but all is not lost. We must find another land in which to live, for the great natural dam which has protected us for so long will not, I think, last for too many years. Therefore, each of us shall start searching for higher ground away from this friendly valley." He stopped and smiled down on the circle of faces, and his eyes widened at the cries that came from them.

His head dropped as his one-time friends reviled him, and scourged him with their words. Silently he walked through the hooting crowd, and still silently, went along the road to his home. Bitter indeed was his heart

within his breast.

He stood for a long time at the doorway of bis bome, looking back to the small town. His head shook in wonderment at the fleetingness of friendship.

And to the young man who ap-

proached him: "My son," he said quietly, "I bave tried to give the news I bear to those

of the village. The great wall of rock which holds back the sea, is none too strong. Long it bas been our protection, but since the earth shook, so it shakes now as the water strikes against it. There is no place we may go without taking those of the village with us, so we must remain to suffer the same fate as they."

"But, Father, it is not right that we should accept death so easily! Is

there no escape?"

- The man thought long and deeply. "My son, you have given me courage, We will find a way, and I think I know what it is. Do you call all of our family here, and we will start the task that may mean life to us instead of the certain doom that is to come !!

Great trees were felled in the following days, and slowly the keel of a ship was laid. Many were the jeers the workers had to forget as they toiled through the long summer days, but the work went steadily forward. From all over the once happy valley, supplies and provisions were brought to fill the vessel. The cattle were taken ahoard, and the horses learned the ways of their new stable.

The time came when the last plank was set in place. And then the man and his wife, and his sons and their wives and children went aboard to start their new life. Then, there was nothing to do but wait. And wait they

did, with the scoffings ever ringing

in their ears. The countryside was swept with

laughter and ridicule, as the people

passed by and saw the ungainly ship sitting in the green meadow. And the man smiled in pity as be watched them. His heart was troubled by the thought of what would happen to all of those who had once called him friend.

But summer passed, and winter hlew its cold breath, and still they lived in the ship, and never left unless it was needful to do so. And spring came early and bright, and there were murmurings on the vessel from the wives who could not visit the town.

And then the day came that the man had dreaded. A calm sunny morning whose peace was suddenly hroken by a mighty rumbling. The great barricade showed mighty cracks radiating over its surface, and the ground shook violently. Just as the tremors ceased, a great wave swept over the top of the natural dam, and descended on the unsuspecting valley. Another and another came, and suddenly the barrier crumbled into fragments. The wall of water carried all

before it with the exception of the sbip. As the water rose, so rose the ship in tafety. When the raging torrest had stilled, the surface of a new sea was smooth and untroubled. And on that surface rode the ark with its cargo unharmed . .

And the man was grievous for his friends, but well content.

The mighty chest rose and fell as if it were a moving tide. Great muscles underlay the yet unformed shin, and the immense them of the lees ease bromite of the strength to come One finger, curled into the mileswide palm, stretched out to its full length, and returned to rest quietly. No sign of awakening could be seen.

THE SAILOR picked himself up from the gutter where he had landed, and glared about him. No one, except a few idling loafers. spared him so much as a glance. He staggered drunkenly down the narrow street, mounting curses against the

hartender who had thrown him out of the saloon.

"So what If I did make a grah for the she-devil," he muttered. "I didn't know she helonged to him! I've got a good notion to go back there and start sumpin'. I'll show him he can't do-" He broke off as he saw the lights of another bar hefore him.

He started to enter, but a hand on his shoulder whirled him around. One look was all he was able to get, and he tried to duck. But the alcholic reflexes were too slow, and the hamlike hand of his First Mate struck open palmed across his cheek.

"You drunken dog!" the mate velled, "I thought I'd find you down here wit' the rest of the tramps! Now, get back to the ship before I beat your head in!" He gave his victim a

shove that sent him sprawline. And then, he was lying beside the fallen form, as the earth huckled and shook. They lay still until the tremor had subsided, and then fought their way through the crowd of panicstricken people to the beach.

The dock was a milling mass of screaming humanity, and the two men had to use fists and feet to clear a path to the waiting ship.

The deck was canted at a dangerous angle as the vessel swaved wildly at her moorings. Each succeeding wave was larger than the one before; and as they struck the side of the craft, it seemed to groan in the agony of dissolution.

The Captain, guns in hand, stood

at the top of the gangplank, threatening those who strove to mount it. "Keep hack there you swahs," he roared, "I'll take none hut my own!

Keep back or I'll shoot!"

With probable destruction behind, and certain death ahead, the mob hesitated, and in that hesitation their doom was sealed.

The mate and the sailor cleared the plank at a hound, and the mooring lines were cut. The ship lurched away from the dock, and for an instant seemed to clear it. The great

wave rising hehind her went unnoticed for the harest hreath. The sailor saw the towering wall of water, and threw himself across a

great sea chest on the deck. Clinging with the strength of desperation, he was swept overboard just as the ship crashed full speed against the stone breakwater.

There were none who rose from the maelstrom of water and wreckage. The sailor, struggling with the chest, looked around wildly for sight of a familiar face, but only the upsurge of water met his wild-eved stare. He finally opened the lid of his strange craft, and crouched in it, nearly out

of his mind with frightened terror. The hackwash took him in its grasp and sent the chest spinning. On the heach he could catch glimpses of the frenzied people as they strove to escape. Suddenly, the entire water front

was split open as if with a mighty knife. Men, women, children, ships and docks were swallowed in the crevasse.

The next glimpse the chest allowed him showed the hreakers roaring into the opening. No living thing was in evidence.

The crest of the mountain in the center of the island was a mass of

flame. Great clouds of smoke made a murky glare over the surrounding sea, and he could catch glimpses where mighty streams of red hot lave crawled down the steep sides. He saw them reach the shore, and the resultant clouds of steam blotted out his vision.

Another great wave washed upon the shore, and when it returned it bore a grisly freight. They swam about bim, their dead eyes lifted to his in the age old question, "Why should this thing be?" and in each of the faces he saw them all, and each dead 'face asked the eternal question.

He huddled on the bottom of the chest, and buried his eyes from the sight of the eyes which followed him, and from the glare of the burning mountain.

The mad sea swung the cheat around and around in an insane parody of a dance, and the sailor lifted bis eyes once more. Visible terrors are more bearable than unseen ones.

The flame-covered air seemed to wrap him in a tangible blanket as he swent the heaving waters in search

he swept the heaving waters in search of some sign of the living. "I can't be the last one alive," he croaked through blistered lips.

"There's got to be someboly else, someplace!" He cried aloud in a cracked voice, and strained his ears for an answer came, and he sat, gripping the sides of the chest, staring at the whirlpool around bim.

He was staring at the mountain top when it happened. The noise was from all corners of the earth at once, as the volcano burst. The noise that no man had ever heard before. Then madness came.

The sailor put two ineffectual hands over his ears, and screamed... and screamed ... and screamed...

The being was complete now, What had been a nebulous something, was now a volden veil enclosing the figure

s in its folds. Points of iridescence a sparkled and shome from it. The c sparm of whatever Gods there be, was almost ready for birth. There was a following the glorious beauty in the gigantic figure; but it was different. allen. The deepert sleep comes just before towardnessing.

SAAR BIEN looked through the port at Earth spinning below him. It was strangely colored through the blast of the rockets, and seemed to waver erratically in the intense

heat.
His eyes hurt from the strain, so he shifted his gaze to the forward port, where the moon hung in the

black of space.

"This time we make it!" he spoke
aloud in sheer exuberance to the walls
of the ship. "Goodbye to a thousand

of the ship. "Goodbye to a thousand years of failure!" Strangely, there was little to do on the trip. The control board was a

mass of dials, meters and remote control switches. The error of buman fallacy had been shown in all previous trips. Some bitherto unnoticed weakness caused eventual disaster. This time, nothing had been left to chance.

He watched the cratered moon increase in size uotil it resembled a toy balloon inflated by the lungs of a Vulcan.

The hordes of distant stars, so

friendly from under Earth's blanket of atmosphere, glared whitely from the ebon depths.

Bien half shuddered at the immensity of it all.

"I'm beginning to see," he thought.

"just what caused every trip to be a failure. If I had any way to turn around and get back to Earth, I think I'd do it. God, it's lonesome!"

He jumped as the rear rockets ceased firing and the lateral ones took up the task. The port was clear now, and he looked longingly at the blue hazed planet below him, enjoying for a few moments the foolish game of trying to find the exact spot on the North American continent

where his home was located. His home, and his bride, Mari.

He knew she was seated at the telescope, keeping watch on every move of the ship, waiting for it to make the turn of the moon, and start back

on the most perilous part of the iourney. A sudden lurch knocked him from his feet, and he saw a green light flash on the board. A meteor bad

given him a near miss.

The moon had grown until it covered most of the sky. The glaring light from it was almost blinding, and he donned goggles to protect bis eyes.

There was a clangor from the board, and a red light flashed. It was time for the rockets to cut off, and he would enter the zone of no weight.

Swiftly, glad of the chance to do something, he donned the harness that had been prepared for him, and as the rocket blast stopped, silence closed in around him.

Silence such as man has never known. Not ordinary silence, but a complete absence of sound. The quiet heat on his ear drums in

a crazy mute tintinabulation that sent great beads of sweat pouring down his cheeks, and his eyes almost started from their sockets. His line were clamped thinly to keep back the peal of insane laughter he could feel rising inside of him.

Frantically, he looked around the narrow confines of the cabin in search of something to relieve the awful stillness, but everything was snugged tight in their fastenines.

For hours that seemed like days,

for Bien, he hung helpless. Through the forward port, nothing was visible but the blinding whiteness of the

moon, coming nearer. For panic stricken minutes be

thought he would crash into it dead center, then the lateral rockets again started their song, and be saw the moon swing slowly to one side, and the star-flecked black of space re-

place it. With the great curve started, the tail blasts cut in, and Bien stood at the forward port, watching the scene below. He knew the cameras were recording everything, but he watched

with eager eyes for the opposite side of the satellite to come into view. The side that no man had ever seen. He couldn't tell when the point

that be was looking for was reached. It was all a sameness, Disappointment gripped him by the throat.

The nose rockets came on briefly, and slowed the vessel just enough to allow the cameras to do their work. Bien's eyes searched the terrain frantically, but only craters and pumice dust were evident.

Far ahead he saw the first edge of Earth appear. He couldn't spare another glance for the whiteness that lay below him. But centered his yearning on willing more and more

of the planet to come into sight. He hardly heard the lateral rockets cut in. The ship curved gracefully

and started back to the world spinning smoothly heneath him. He smiled at the glint of the sun on the waters of the ocean, and even at that vast distance, be could catch

the snowiness of the cloud masses. "Just let me get back, and somebody else can have the glory! I'llnever leave again!"

His face was against the port when it happened. A great crack split the entire Eastern Hemisphere, and a section of it flew off into space. Mountains crumbled to rubble under his horrified eyes, and the seas disappeared in a vast spray.

He was gripping the sides of the port when the Earth flew to bits, and he saw the great shrouded figure emerge from the fragments. The veil opened, and every iridescent point

on it caught the full force of the sun-

light, and blazed with energy.

With a speed exceeding that of light, he saw the giant alien whip out of bis sight almost at once. Where it had been whirled and soun the rem-

nants of a green and friendly world.
His voice was a thin thread of
monotone that babbled...

"No....no....no....no-"

MECHANICAL COW

* By MILTON MATTHEW *

STRAIGHT out of all the satires that Dave been written about the mechanized world of the future, is the California statembly line cover it is almost hard to be-dering what the set they will be first the West World, that bling statire of Aldous Houdern, gives the mechanically miner of Aldous Houdern, gives the mechanically mining with its rijectical of test-tube babbes, and mechanizally attendated emosition. But a clarification of the complete of the complete

intensions engineer has devised an assembly line technique for milking cowsi It will handle an enormous number per hour and it makes the straight milking machine as obtolets as the milking machine and handle milking! of bundreds) file into a marrow stall where they actually climb onto a moving assembly line con-

into a narrow stall where they actually climb onto a moving assembly him conveyor which goes on at a rate of ten feet per minute. Automatic weahing muchines spray their andervides clean and morilize them. One attendant at this point then fastent on the automatic milking appara-

the control of the co

We are inclined to laugh at such extreme measures in a bechnique as old as that of milking cown. We shouldn't really because it's the coming thing.

it's the coming thing.

As these methods spread, we can see the farm of the future changed completely from what we know sow. The trends are underfoot. Soon they will be dominant. The state of the sound farmers—The sound farmers in the sound farmers—the sound farmers in the sound farmers in the

LADY LUCK IS A TRAMP!

a chicken!

* By WILLIAM KARNEY *

WHEN YOUR egs roams over the accomplishments of industry, science
and education, your beart could swell with
pytice. Admit it. Inn't that what you think
when you see the wonders of the world
around the profit there is the same around the profit three is the same around the profit three is the same around the same a

thought coming. Man lim't very far at all from his primitive ancestors if you look at some aspects of modern living. And if anything he's more superstitute worsel were all the superstitute of the superstitute worsel with the authority for such a series of statements which seem to violate common square? Signiple—the authority is the

state of gambling!

Gambling at present is a ten billion dellar industry which seems to be continually

environ. The fail of a site, her running or horse, the fill of a card—security is human stature makes these trivial events human stature makes these trivial events on the cardinary for the car

eventually work for them.

These latter constitute the second class. To these unfortunates—and they folal military control of the second class. To these unfortunates—and they folal military control of the second control of the mathematics of class, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, then the second control of the mathematics of classes, the second control of the mathematics of classes, the second control of the mathematics of classes, the second control of the mathematics of the second control of

shows cannot be beaten. A professional gambler does not "gamble". He operates a business establishment which by careful mathematical calculation, is run in such a professional control of the profess

Someday, may be a hundred, may be a hundred, any be a hundred, and the housand years house, historians are going institutions and our customs. And they will be more actioned by the tremendous to be a substitution of the substi

FINDERS KEEPERS

* By L. A. BURT *

TTS NOT our habit to report on nevdependent of the property of the process of the property of the property of the promise great things for the future which the card resist things for the future with the card resist talking about a piece of gadgetry that really takes the cake. It's a radioactive golf balls as the cake. It's a radioactive golf balls as the cake in the protes that the property of the property of the protes of the property of the property of the protes of the prote

got ball! " " The owner carries a small portable, light deleger ownter. When he loses his ball in the rough, all be dees is walk in the received infection of where the support of the constart and prestod—as estumbles on it before be known. A. This secret is a small arount of a realistant material embedded in the

case of the ball.

In itself this trivial piese of beit-a-bree, while pieseting and useful, will not uncertainty to be useful to be use

In a more serious vein, it is possible this material might be used for tracking lost soldiers or explorers...

SUPPLY and DEMAND

+ By JON BARRY +

THE OLD concemic law of supply and demand earn's be stere illustrated than in the case of radioactive materials. A short ten years ago, it was peasible to go into any scientific supply house and buy all of the uranium and thorium compounds all of the uranium and thorium compounds for ten pounds of uranium nitrate, the clerk would say, "certainly, here you are, derk would say, "certainly, here you are,

But don't try it now.

the box lays where we precisely a first of the property of the

* * *



The DEVIL

By Mack Reynolds

Making a pact with the devil can have certain advantages — especially if payment is not exacted. But who works for nothing?



"There," Mephistopheles exclaimed,
"you admit it yourself! Your life has
been less than satisfactory thus far.
TO." THE poet replied, Come, let us not descend to common

after considering hriefly.
"To tell you the truth, I
never really believed I had one, nor
that anyone else had for that matter,
hut now I am aware I have a soul I
most certainly have no desire to sell

"Oh, come now," and Mephistopheles, ingratistingly, "If you've been perfectly happy in the past without even knowing of this er...property, why should you he so loathe to part with it?—At a good price, of course." He drew on his Pittsburgh stogie with satisfaction, thinking he'd made a devilible xood point.

The poet shook his head stuhbornly.
"If a soul wasn't of considerable value, you wouldn't want to hay it.
And, not to change the subject, who said I've been happy in the nast?"

His face took on an esthetic expression which the demon found more than ordinarily nauseating. "There," Mephistopheles exclaimed,

"you admit it yourself! Your life has been less than satisfactory thus far. Come, let us not descend to common haggling; I said I'd give you ten years of whatoever your heart desires. We'll make it twenty."

The poet ran a limpid hand through

his long blond hair and hedged. "Just what do you mean hy 'my heart's desire?"

The tip of the demon's stogle burned red, he knew, being infernally

clever, that he now had the other in the hag. "Just that," he said easily: "What do you wish most of life?" The poet's eyes took on a far away glaze. "It want my verse to be on everyone's lips, my lyrics heard hy.

all ears..."
"Exactly," said Mephistophelea.
"With my assistance it shall be done!"
To tell the truth, he was beginning to
wonder if he actually wanted this jerk
hanging around the nether regions for

the rest of eternity; the place was getting rather crowded, business heing so good these days that it was seldom any more that he resorted to this sort, of deal: However, there was another factor involved and one that he hoped would bring him considerable

renown in the best stygian circles.

The poet considered further, then, said slowly, "If I accepted your assistance, it wouldn't he my work that became famed, it would be ours and I'm not particularly prome, to

collaborate with the devil."

The demon pulled isritably on the stogie. "Nonsense," he snapped. "Do you think I'd he hothered with writing verse?" The only kind of poetry that ever really appeals to me is a certain type of limerick." His dark countenance lightened a bit. "Listen," he continued, irrevelantly, "did you hear the one that starks.

"There usiz a young mon from Kent?"

The poet placed his hands over his ears. "Please," he "murmured delicately.

"Oh, very well," said Mephistopheles, miffed, "but I'm particularly

les, miffed, "but I'm particularly interested in sponsoring your career. You write the verse; I'll see it reaches the public, and at a goodly profit to yourself."

THE POET made a moue. "But if my poetry has the seeds of greatness, what need have I of your services?" He gestured sweepingly, alheit gracefully, at the garret studio in which they were holding their conversation. "It want remain here.

long if my name once..."

The demon snorted. "Twattle! Just hecause a man is potentially a great poet doesn't mean his verse will ever be written, or, even if it is, that it will be received with the acclaim to which it is entitled."

"I...I don't helieve I follow you." Mephistopheles flicked a hand impatiently. "Take your outstanding poets of the Romantic Period—Byron, Shelley, Keats. All three had the er...hreaks; none of them ever had to worry about their livelihood. Byron was Lord Byron, born with a silver spoon in his mouth; Shelley was a baren. Keat came from a field wall.

spoon in his mouth; Shelley was a baron; Keats came from a fairly well to do familje." The demon took a deep drag on the stogic—his last—noting sadly that it was getting rather short. He hated to think of going back to Pittsburgh for another supply. What a older!

· He went on "How many poten-

tially great poets do you think lived their lives out working in the textile mills of Manchester, while Shelley, weath to spend their time spinning reach to spend their time spinning rhymes?" He warmed to his subject. Take Thomas Bood, for example; poverty stricken all his life, he ladt to spend his energies writing cheap papers. Had he heen given the leisure and security of the others, you might he celebrating another name today as the shaling light of the Romantic

"Hmmm," the poet said; "It has truthfully been written that the devilis eloquent." He thought it over. "These surroundings are somewhat depressing. You really think you could make my work as well known as Shelley's; as Byron's?"

The demon pressed his point. "Even more so! I shall act as your agent, hring your work to the attention of the right persons, direct your efforts, see that they are financially renunerative." He gestured dramatically with the hand that held the now cold stogie. "The whole nation will hear your lyrics!"

The poet was swept away. His voice, rang passionately, "I'll do it!"

Mephisopheles beamed and became instantly businesslike. "By a remarkable coincidence," he said, "I have a contract right here in my pocket. If you'll just sign on the line at the bottom where I've marked the "X." He brought out a fountain pen, you'ded it to the other's arm and

He brought out a fountain pen, touched it to the other's arm and instantly its transparent barrel was filled with dark red. At the poet's gasp, he said soothingly, but briskly," "Blood, you know—all part of the annowed roccedure."

The poet shivered delicately. "I loathe business," he said, taking the pen. "So crude really."
"Isn't it though?" said the demon.

"Isn't it though?" said the demon, beaming and rubbing his hands together with satisfaction.

TWENTY years had passed and the poets at a his case in his Manhattan ponthouse, a breather glass of area Metasa in his left hand, a pad-reserved from the post of the post of

A butler in livery entered unobtrusively, and the poet looked up in irritation. "Yes, Granville" he sighed. "Must these interruptions be endless?" "I bee your pardon. sir." Gran-

ville said, "but your business manager, Mr. Nicholas Mephisto, is here."

The poet ran a limpid hand through

The poet ran a limpid hand through his now graying locks. "Oh, I'll receive him, I suppose, I simply

loathe business."
Nick Mephisto bustled in, a briefcase in one hand, the other outthrust to be shaken. "You've done it again, old man!" he burpled enthusiastically around the stogic clutched in his teeth. He breathed out a gust of the wrath

a of Pittsburgh, setting the poet to foughing.

"A smash hit with J. B.;" the business manager went on, "he's

business manager went on, "he's really nuts-about it."

The poet shook the outstretched

instantly its transparent barrel was hand limply. "He is?" he shrugged. filled with dark red. At the poet's-" "I supposed he would be. It was bril-oasn, he said sonthingth, but brisky: liantly conceived, of course."

liantly conceived, of course."
"I'll say," Nick crowed, trans-

ported. "In a month, every man, woman and child in the country will be hearing it a dozen times a day." He lifted his eyes to the ceiling extatically and recited:

Colossal Corn, Colossal Corn, Pop and eat Colossal Cornnnnnn. . At home, at parties, movies too, Colossal Corn is good for Youwu!

He gave a deep sigh of satisfaction.
"It'll be your greatest triumph since
you wrote the lyrics to The Music

Goes Up and Down."

"Oh, come now," the poet said deprecatingly.

Nick gestured with enthusiasm. "I

réally mean it. Old J. B. is going to have it on every network in the country, twenty times a day. He's trying to get Bing, Frankie, Perry, Dinah—" Nick rubbed his hands together with satisfaction. He took the storie from his mouth-

4. and pointed it at the joot, emphatically. "I lought we were going places when I had you do the lyrics to ... Three Little Whelester, Coursie Hay and Catalet Milk, and The Music Goss Up and Doem, and, to tell you' ill the truth, I got a lot of favorable comment from the home-office as a result of them. But these singing commercials, brother..."

The poet took a gentle sip of the Metaxa and frowned lightly. "Ah... y Nick," he murmured, "there was one thing I wanted to ask you about. That, er...contract we signed some

time ago. It seems to me . . ." His business manager held up a hand, hastily, "Now don't you worry about that, old man. As a matter of fact I was talking it over with the

boys higher up just the other day and they figured it would be best if we just extended that contract-indefinitely."

The poet gave a gentle sigh of relief and inhaled deeply the bouquet

of the ancient brandy, "I don't believe I quite understand," he sighed. "Of course, I'm quite satisfied,

but..." . . Nick removed his stogie from his lins and looked at the tip of it with satisfaction, "Very simple, old man:

they figured more good is being done the cause by your remaining here and keeping up the fine work." THE END

ATOMIC SUBMARI

+ By A. T. KEDZIE + WO STEPS are about to be taken in

the use of atomic energy, steps which will finally put this magnificent power agent into seems use basides explosive bombs. The Atomic Energy Commission has started work on the installation of an "atomic ongoine" to be located at Arco Idaho and to serve as aprototype for an marine—and possibly a surface ship.

Considering that aboutle energy is now quite a few years old, this is the most encouraging sign to be found now. It finally means that atornic energy is coming out of that strict shell of secrecy which has surrounded it sinte its conception. No details are being released of course. The "atomic engines" are called just that and nothing more. But it is easy to draw a mental picture of how the new machine must operate. From what we know of conventional stomic energy developments, these engines will be little more than compact, shielded piles whose function will be to generate heat. Of course here there

This heat energy will be used to boil water

electric generator or steam turbine com-

As soon as test-stand arrangements of the new engine show how effective it will be, the device will be installed in a sub-marine. The choice of a submarine is ob-vious. Such an engine will give the under-

sea craft almost an unlimited range. In addition service requirements about he Details of design such as the shielding to protect crew members from radiation and the disposal of atomic wastes have not been explained. However it is evident that

some way has been found to avoid the use of radiation shields consisting of ten feet of concrete and a foot of lend. That fact that atomic energy is coming out from behind its wall of ultra-secrecy is satisfying indeed. Perhaps at last it will

be used in a truly constructive way. After all there is very little difference between the power plant required to drive a sub-marine and the power plant of a city. One can be built as easily as the other. Una tremendous amount of heat available. questionably electric generation of atomic energy is on the way at lastand provide steam to drive some sort of what hoth Man wrought?...

FACTORY ON WHEE

+ By CHARLES RECOUR +

HE SIGNS are here already. And be-The Signs are nere anomy. On Fu-I hef in the future confirms them. Future food industries will deliver practically directly from the fields to the consumer! We can't peer head very far, but we can see the general trends of things. Food processing is one of our most important industries. We have to east, don't we'l And we can see clearly the shape of things to come. The ultimate revolution in our agricultural industry is slowly and our agricultural inci-surely coming about.

This much we see today: first and fore-most, the farm of today is becoming a wideress of mediheary and the process of the forest of the farm of today is nowedays without more gadgetry and mechanism than you find in the average city home. And it's machinery with susteil Electricity and gasoline really dustwork.

So much for the present. The future tells us that we're going to see the time when gigantic machines, consisting literal-

ly of miniature factories on wheels, are going to slow through the fields, picking the crop, cleaning and sorting and processing it in their capacious interiors, and then ejecting it completely cannot or packaged, and ready to go to the consumer!

That sound like fantasy? It isn't. One present manufacturer has even gone so far present menufacturer has even gone so far as to use a notional advertisement depicting this very condition. The advertisement shows a huse tractor-like machine the size of a couple of houses. It is lavishly equipped with automatic devices and it rolls along through the tall stalks of corn on huge rubber-shod caterpillar treads, gobbling up insatiably, vast amounts of

gobbing up inistiately, valt amounts of corn, shucking it, stripping it, sterilizing it, cooking it, and canning it, on one vast built-in ascembly line! The advertiser wasn't trying to hu-morous. He knows that is the state of afmuscle and since consumption demands are so tremendous everything in the food in-dustries points toward the ultimate in

mechanizing. The farmer of the future will be es-sentially a skilled techniquan of the first order-almost a scientist. From the dusting of his crops by helicopter (plenty of which is done right now) to the packaging of

his products and the leveling of his fields. he will be producing at an incredibly greater rate and more efficiently With your mind's eye, glance into the future and visualize the sleepy summer afternoons in Iows, no sound disturbing the stillness except the quiet whitper of elec-tric motors and slup of rubber treads as the tractor-harvester-factory rolls over the fields. And the "farmer" leans back in

fields. And the "farmer" leans back in his air-conditioned home, watching the af-ternoon game on the three-dimensional video. It's on its way! fairs to come. Since power has replaced

HOBBY OF THE FUTURE

* By SANDY MILLER *

PRESENT-DAY AMERICANS includes in every hobby or extra-curricular activity conceivable, from stamp collecting to home foundry work. Judging from this it is possible to note certain trends and to set some idea of what sort of hobbies will captivate the Americans of the future. will captivate the Americans of the future. There are two castly recognizable trends which stand far and away above the other hobbies both in numbers of prac-ticioners and in the difficulty and quality of the work. These two are home shor-work—this includes wood and metal work—

ing and almost every technique which makes or constructs something—and amateur scientific hobbies.

The magnitude of the former is shown by the vast number of popular scientific massizines and the enormous amounts of tools and equipment which are sold each year. And it is also a fact that these figures are increasing. Almost every person in the country wants to make or build things. This is a healthy sign, and it may be indicative of more than simply a hobby-it may be the basis of a future ed, an economy in which small units will on, an economy in which small units will be the major ones, in which small com-munities and societies will be entirely self-sufficient almost like the Utonias of

old. The rapid burgeoning of the scientific hobbies, like anateur telescope making, armateur radio and television activity, manerology, chemistry and so on, hold infinite promise. In these forms of hobbies it is often impossible to draw the line between the professional and the amateur.

An excellent case in fact is in amateur radio, which as long as twenty or thirty years as was experimenting with television and which predicted the use of the cathode ray oscilloscope for that esoteric

As the future brings more and more cause time, men win have to turn to hobbies and recreations for personal satis-faction. The arts, music, sculpture, paint-ing, writing and so on will always have a great following. The scientific hobbies will be as rich. With tools and estigment so cheap and so available as they are now, in the future, they will be even more so, and it may be possible for the interested amateur to have his own cyclotron or betatron! Already amateur atomic physicitts are playing with Geiger counters and Wilson Cloud Chambers, with , all the aplomb and sever fairs of Oppenhalmer

himself You can't set limitations on the future. The time will come when it will be impossible to distinguish between the hobby-ist and the professional. And there is no reason to. There was a time during the Renaissance when the well educated man could do almost anything. Then came the age of specialization and ignorance. Now it appears as if the pendulum is awing-

ing back again, and once more it is poseverything and a heliuva lot about one The future is rife with promise for the man who shows an interest in know-how and creativeness in any form. The citizen of "then" will be a better man in all respects than a citizen of "now"...

EARTHBOUND ...

By Alfred Coppel



5



the sabeteur on the rocket project. But can you capture something you can't see?

THE DESERT sun burned through the windows, etching bright squares on the floor and bathing the green walls in reflected radiance. It was hot, and the soft burn of the air conditioner was a somolent sound in the Security Office. Outside, solimenty in the best, squatted in the air conditions of the condition of t

Pete Marley looked up as his secretary entered and seated berseli across from him, pad and pencil poised. He rummaged in the litter of papers on his desk and found the

manila marked: Ranheil, C. M.

'He extracted a sheet from the envelope, fingering it nervously. The information was all there, amazingly.

And like the purloined letter, is had been ignored because it was obvious. That hurt Pete where be lived. But at least he had it now. Before the nextlaunching.

Ever since the last crash, Pete had been digging. Sifting and screening, narrowing the search, Until now only Ranheil, remained under scrutiny. And Ranheil was it.

Ranhell was if.

That was bad enough in itself, Marf lev thought bleakly. The knowledge

that all the security work—the oaths, the checks and examinations and investigations—had failed to keep a saboteur out of the Project. But there was more. How much more to it, he could only guess—and his guess frightened him.

He looked again at Raqheil's doss-

ier. The oddly patterned whorks on the fingerprints, the peculiar enceptable graph curvé. The glossy I. D. photograph stared back at him from amid that welter of personal data. Marley wax chilled by its allenage. The fine, almost delicate bone structure. All almost delicate bone structure by almost developed by the direct lenses. The phrase was in his mind stuck there, like a tiny aliver of ice. The phrase was Not human. Not human.

Marley shifted uneasity in his chalt. He would have to lay his finding helore Dr. Hartmann, of course, Hispersonal dislike for the Project Director could not be allowed to endamger the next hunching. Hartmann would enjoy making the Security Director squirm, no doubt. He had any complished on the security anyway, and have been been been sometimed to the courley look, good. Heads would roll. And not Hartmann's, either.

Marley grimaced. Hartmann was repellent, but he had a right to the facts as Pete saw them. Three moonshots had failed hecause of sahotage. And Raphell wasn't human—

They'll think I've had too much sun, Pete thought bleakly. Martians in New Mexico. Orson Welles stuff!

F_HLDY WAS, waiting patiently, her pencil poised above the notepad. A small golden girl. The sun struck her taffy colored hair and lightly freckled face. There were tiny beads of perspiration on her forehead and her upper lip. Her dress clung damply to her body. There was a golden fuzz on her bare legs. Pete gnawed his lower lip, He'd never paid much attention to Hildy. She was pretty ordinary. Just—human. A person. Nothing like, Ranhell. In spite of himself, Marley shivered. He felt quite suddenly like something under a microscope and he didn't like it. Vague fear and resentment crowled un'into

e fear and :

He gathered up Ranheil's file and got to his feet. "Never mind, Hildy?" he said, "We'll do the report later." "All right, sir." "If anyone calls, tell them I've gone

over to see Dr. Hartmann."
"Yes, Mr. Marley."

"Yes, Mr. Marley."
"I'll be hack about sixteen hundred."

"Lieutenant Bishop will be here at fifteen thirty," Hildy said. Bishop. The first pilot for the next

moonshot. Marley wondered vaguely about the morale problem among the Air Force youngsters waiting to take the next rocket up. The three crashes couldn't be good for them. He had better talk to Bishop and keep his finger on the pulse of the second-stage personnel. That was all part of Security. Scarcd pilots were had risks. "Have him wait for me. Hildo."

He gathered up his papers and stepped out into the broiling sun, a sense of, tertible urgency driving him across the shimmering square toward the Administration Building and Director Hartmann's office.

MARLEY'S interview with Dr. Hartmann left him shaky and spent. When he left the Director's office, his hand trembled with a mix-

ture of mortification and concern.

He tried to organize his thoughts for the next move—and found him-

self unsure that there was one.
"You surprise me, Mister Marley,"
Hartmann had said coldly. "I had

not expected such imagination in a policeman." "If you'll examine these papers,

Dr. Hartmann-" Hartmann, a huge bulk behind his neatly ordered desk, huge and shiny and somehow reptilian, had cut him off sharoly.

"You have overreached yourself at last, Marley, just as I knew you would. It isn't enough that you have disrupted important work and allenated valuable personnel with your witch-hunting-now you come searching for-" The voice had grown heavy with sarcasm. "-for non-humans. The absurdity of your position should be

apparent-even to you." "One, two and three were all sabotaged. Hartmann. The investigating "Not Russian spies this time? Or

fellow-travelers? Or poor loyalty risks?" Grating, heavy-handed irony. "Of course not. This time it is to be Martians!"

committee-"

"I didn't say that." "Just what, exactly, did you say?"

"Simply that-that I have evidence that indicates there might be doubt concerning Ranheil's - humanity." Marley had finished unsteadily. Now it seemed that his certainty and urgency was evaporating under Hartmann's scorn. He felt ridiculous as he snoke the words.

"I think." Dr. Hartmann had said coldly, "That you have had too much, Marley. You need a change of scenery. I'll take it up with Washington in the morning. In the meantime-" And here the tone of command was unmistakable, "Do nothing more about this insane notion of yours. Ranheil is a valuable technician. I do not want him victimized. Is that clear?"

It was clear enough, Pete thought as he recrossed the square toward his office, clear enough that Hartmann thought he was a whack-and one

that he would be very glad to be rid of. Marley had no illusions about how his theory of the moonshots' sphotage would be taken in official Washington. He could remember the laugh-

ter that greeted reports of flying saucers. The very least he could hope for

would be dismissal.

DETE MARLEY received his secand blow when young Bishon told him the lauoching of shot number four was scheduled for o300 of the next day. Hartmann hadn't mentioned it to him at all. Pete frowned. So he was already on the outside looking in. That's what happened to imaginative policemen, he told himself. He should

have kept his mouth shut. When Bishop had gone, Pete asked Hildy to locate Ranheil for him. Then he went to his quarters and rummaged through his locker. He found the Luger and checked the clip. It was loaded, all right. The clock on his dresser

said 1630. The telephone rang. It was Hildy. "I couldn't locate Mr. Ranheil," she said, "The lab people said he might

be at number four launching site. Do you want me to try there?" "No. Hildy. Just get me a jeep from

the motor pool. Tell them to have it at the office by 1730." From here on in. Pete thought

hleakly, he was acting without official sanction. If Hartmann found out it would mean arrest, but he had to risk it.

Ranheil at the launching site. Another piece of the mosaic fell into place. Ranheil had been right in the middle of missile research for how long now? Six years, the record showed, Since early 1950. He had a quiet reputation for excellence-even brilliance in rocket development. There were at least four components in the moon-rockets that he had developed personally and at his own expense,

The investigating committee had stated very clearly that the sahotaged parts of the crashed rockets had not been the parts made hy Ranhell. Alien or not. Pete thought grimly, a criminal is likely to work in a pattern. He floured he had Ranheil's pattern established.

Question. Where did Ranheil come from? The thought was a frightening one. Not human, Not of earth? It didn't necessarily follow. But the preoccupation with missile research seemed to indicate that Ranbeil had come from-where? And how? The why of it seemed clear to Marley now. Something, somewhere wanted men earth-hound. Permanently. "I think we're property." Fort had said long ago. Part of the pattern? Pete Marley looked at his hands. They were trembling ...

THE LIGHTS of Marley's jeen picked up the first checkpoint on the rutted road to number four site. A white-helmeted MP flagged him down and inspected his ID Card in the tiny glare of a pocket-flash. Satisfied, he stepped back and motioned Marley through the roadhlock. "Has Mr. Ranheil been through

here tonight, Corporal?"

The MP consulted his clip-board. "Yes, sir, Came through about 1630," "Thank you, Corporal," Marley put

the narrow road. The Luger felt heavy in his pocket,

Overhead, the desert stars seemed unnaturally bright. Over the crest of the low hills to the east, a crescent moon was rising, its dark sphere blotting out the starfields, Cacti and joshua trees crouched grotesquely in the starlight, like half-formed dreams. The headlights of the icep were an island of reality in a fev landscape.

Marley thought of Hartmann and

his lips pursed distastefully. He remembered the scene in the Director's office with a mixture of shame and revulsion. He should have spoken up more. He should have made Hartmann understand. Instead he had let the man heat him down with scorn and sarcasm. It was no wonder, Marley thought grudgingly, that Hartmann had been made Project Director. No one stood up to Hartmann very long-or very well.

Pete looked back along the dark road, fearfully. If Hartmann should find out where he was and what he was planning-

He didn't want to think about that, The dark spire of number four was topping a low ridge as Marley pulled away from the second check-point, The lattice of the launching rack made a black pattern against the night sky. As he drew nearer, the reflected glow of flood-lights hathed the lower part of the spaceship's hull. A single light shone through the open valve near the needle-sharp prow, some eighty feet above the clustered technicians on the circular ramp.

Marley parked his jeep and mingled with the men at the base of the craft. He asked for Ranhell, Someone pointed to the open valve. Marley nodded and stepped onto the lift. As the platform drew level with the open lock, he saw Ranhell. He was cronched over the control panel, a section of the jeep into gear and moved off down which had been removed. It lay on the deck at his feet, trailing wires among

a' litter of tools. Marley stepped into the control room, Ranheil turned to look into the muzzle of the Luger. An expression of fearful incredulity spread over the

delicate features. "Don't talk," Marley said softly, "Come with me."

Ranheil seemed weak with terror. He nodded soundlessly. Marley led him onto the lift, keeping his pistol concealed, but pressed against Ranbeil's back.

"That jeep, Ranheil. Walk slowly. Do not attract attention," Marley said. He spoke calmly, but his heart was pounding and his mouth was dry. What, he thought, if I am mistaken?

He started the motor and hacked the ieen carefully out of the parking area. Slowly, deliberately, he drove through the check-point and out into the darkness of the desert. The moon was halfway to the zenith now, spreading a pale and ghostly light over the rolling dunes and dry wadis.

Ranheil spoke for the first time. He spoke in a voice thick with fear. It was a question, but spoken in a liquid gush of alien polysyllables. Alien . . . 1

MARLEY DID not reply instead, ,he turned off the main road and into a dry wash. When he had driven a few hundred feet he stopped the jeep and switched off the lights and o motor, "Get out, Ranheil," he said.

Again that pleading question in a fluid foreign tongue, Ranheil's eves were pale and wide in the faint moonlight. Marley could feel the other's terror. It was like a tangible aura

in the night. Marley took Ranheil hy the wrist and swung him around, shoving up on his twisted arm. Ranheil mouned

with pain and fear. "Now talk!" Marley gritted, "Who are you?"

The other seemed struck dumb. "You-you do not know me?" He twisted his head around so that his face was close to Marley's. There was a look of mixed hope and dishelief in the almond-shaped eyes, "You are not-" The last word was a slurred elien sound

"Talk, I said!" Marley said viciously. "You are not the Overlord! Gods!.

There is hope!" Ranheil whispered. "Where did you come from?" Mar-

lev demanded.

There was a moment of charged silence. Ranheil looked hard and searchingly into Marley's face. Presently he raised his eyes to the sky. His free hand pointed to the reddish star that hung near the lower horn of the crescent moon, "From there," he said.

The suddenness of his victory and the shocking implications of it sent a tremor through Marley. He released Ranheil and stepped back, the blood roaring in his ears. "Go on," he said shakily.

"I...I am what you...of earth would call a . . . refugee." Ranheil said. "The Overlords devastated our land and scattered our people-because we sought to reach the stars." His voice. gained in resonance as he went on "I stowed away on one of the ships

of the Overlords and came here. In my own land, among my own people I was a leader in the rush for the stars. Now my people are gone, and I have come here-to help you, my hrothers," he finished simply. Pete Marley sank back on the fender of the icen. This, he told him-

self was all a dream. It was insanity. It was madness. "Are you saying that there is another race in space?" he asked hoarsely, "A race of ... Overlords . . .that mean to keep as earth-

bound?" There was a faint whirring sound

hehind him, and a pale hlue light. The radiance bathed Ranheil's face and Marley saw panic contort him like a marionette. Before Marley's horrified eyes Ranheil collapsed to the sand, grotesquely, hideously.

A voice said: "A little knowledge

is a dangerous thing, Mister Marley." Marley felt weak. His legs refused to support him. An enervating hissitude swept over him; he sank to the sand in front of the jeep, unable to move. He could see that his body was

glowing faintly with a weirdly blue radiance. There was a movement. Above him

stood a god-like figure, naked but for a belt of metallic mesh around its waist. The creature was sexless, huge, reptilian. Terror and nausca surged in Marley, but he was helpless to Suddenly they second very far away,

break his paralysis. The creature's face-

Hartmann!

"Do you imagine that the stars are ·for such as you?" The god .. . Hartmann...laughed. The radiance grew brighter, crackling and dancing across

the sand toward Ranheil. It touched him. He twitched once or twice and was still. Marley knew he was dead, The blue fire reached again

As the flames approached, Pete Marley stared up at the desert stars,

THE SCIENTIFIC FAN

* By LYNN STANDISH *

SCIENCE FICTION fandom is a com-pletely commendable organization of. people interested in science fiction and fan people interested in science firsten and fan activity. Also, it is about the most verifer-ous group of hobbyists in the world. But beneath this mask of talketiveness, there⁶ exists a large and even more specialized body of individuals who are avid science-fictionists—especially in their reading but who also have an avocation-genuing out who also have an avocaton-genuine annateur scientific work. Very often this group has been stimulated into scientific activity through the very act of reading science fiction. The "scientific" science-fictionists in-

ine "scientific" science-fictionists in-clude many radio hams, amateur astronomers, amateur chemists, homeworkshop enthusiasts-and just plain "amateur scientists". It is certainly easy to see how a person with a scientific bent of mind could be gently eased into an intense in-terest in science simply through a desire to understand more fully the million and to understand more fully the million and one concepts he encounters in set. The re-sult is that often some amazingly inter-esting scientific activity is engaged in. We've known these hobbyits to build almost everything, ranging from simple shop projects to ingestous variations of exicutific insurposess. In particular, one

scientific instruments. In particular, one fellow we knew had the sudarity to go shend and build a Wilson Cloud Chamber in order to demonstrate the actual paths atomic particles to his friends!

Analyzed the project was not quite as Analysed the project was not quite as fearsome as the name might indicate— "Wilsen Cloud Chamber". All it was was a glass flask of the Ehrlenmeyer variety with a rubber helb on the bottom end. The top of the flask (actually the bottom since it was operated in an invested po-sition) had a couple of wires embidded in it and a small amount of a uranium com-pound which emits alpha particles. The flask was filled within a half inch of the top with nigrozin-redyol (black) water and greatly compression and expansion of the rübber bulb created the actual cloud of-fect. A two voth potential from an ordinary radio power supply awept the chamber of interfering ions just before usage, and a strong tin-can-100 watt bulb arrangement provided the powerful Mumination.

previded the powerful filumination. It was amazing to see the demonstra-tion of the real paths of these minutes to the real paths of these minutes that such an appoint to the only reason that such an appoint to the case to the case too few poople are aware of the relative simplicity of constructing that sort of thing. The fellow who built the order deamber recalled having seen mention and description for the first time in his life in an old issue of Amazing Sto-

This one example could be multiplied a This one example count be managed a hundred-fold. Most of these amateur scien-tists never expect to do saything Earth-sbaking or particularly startling to the world of science. But their efforts enable them to understand our modern complex world much better. And in addition when nurse muce nester. And in addition when they feel that some scientific law has been visitated, very often they're the loud-est in their cries of protest to the Rend-ers' Section!

It's pretty hard for a science-fiction author to put one over on a man who's watched a Wilson Cloud Chamber overate. Authors, take beed!

HOT-SPOT MACHINING

+ By RAMSEY SINCLAIR +

METAL-WORKING is a measure of the Micountry's advancement. Here in the U.S. we're just about ahead of everybody. This bodes well for the future. Metals and metal-working make for progress. Here, Can Do!

Historian metal working is primarily metal cutting in a late or milling machine, methods of speeding this operation up are extremely important to each and everyone of us. After all innetestals of everyone of us. After all innetestals of earn and appliances and wast have you, that we Americans are so fond of, come from removing metal. Do it faster and more carlly and you make things cheaper—Everyous & smillar with the upper tought.

cars and appliances and what have you, that we Amprican are no find of, come more early and you make things descended where the angle of the common carry and you make things descended where the common carry and part along the common carried while carried while carried while carried while carried while carried while carried when the carried while carried when the carried while the carried

becomes dull. If metals like the all-important steels were soft like brass or coper, it'd be a cinch to do high production with them. All right, let's make them soft.

How?

The answer turns out to be so simple, it's hard to believe it want't thought of before. Just take and heart the metal? In other words, out take and heart the metal? In other words, out it while it's hot the cutting tool and by keeping the cutting tool and by keeping the cutting tool and by keeping the cutting tool and tool with a flow of special invalid the heatest steel cuttonible before it attack like obsess under the incisors of a multiplied at bousand tune.

multiplied a thousand times.

There are problems to be solved yet—but they're only a matter of time. Hot-spot mechaning as it's called, is have to stay. We—that is meet of us—may never setually see such a mechanism using the procuse in operation, but we'll reed it eff-called the setup of the seed of the setup of the

And as always, new production techniques invariably generate new items. Maybe that helicopter will be brought into the range of the average person's pockethook yet—well but our shirts that it will!

IDIOT STICK

* By J. R. MARKS *

CUIRENT during the last war—and probably today, was an expression of disable describing the settivities of a pick and shored learn.—"he is two-time with a most such simple fools require no more taken to use than as dictly pessenger. This is not you have been such as the same than the same taken the same taken to the same taken taken to the same taken taken to the same taken t

none of us can be particularly proud of our so-called methanical or technical or technical ability. For gradually, exceptingly, science has been reducing the technique of thinking, in fact, it can almost be said that good, hard thinking, is a rarity. Accurring skulls is another matter; there is no relation between the two.

Just look around you, Everything that you can think of is simple and easy to

Just lock around you. Everything that you can think of is simple and easy to use. No effort, no skill, no brainpower is required. And as time goes on science premises us more and more of this "pushtum" ease! If the trend keeps on, we'll

be reduced truly to a race of sub-morous and super-dista, capable of doing nothing more than pushing a button or reading an instruction.

This theme is grist for the mill of a scener-fittionist, insagine a world in which

human brings have become as reduced inmental by the sheer attender of their thinking and hereping fracilities. It's not as fraing the sheet at the sheet at the sheet at the of time, existing ground in clouds and, for example, want to case out this subject or durings to learn, Not so many years and there was a terrifying trend to climinate the sheet at the sheet at the sheet of the above common arithmetic because pupils had so much trouble with it! Now imagine a science feltomere carry-

to also be much trouble with it!

Now imagine a science fletioner carrying ing this to the ultimate! There is good be a science of the scienc



of BLUE GAP

T WAS just another morning. The sun was sbining like forty million dollars. All kinds of hirds were chanting and warbling. The hills were young with infant buds and tender green shoots. I felt like the bottom of

a dry well on a black night.

"Just another morning," I said to

myself. "The bell with it."

I had slept in the car. I hadn't eat-

en since day before yesterday. Mayhe I should have chewed some huds and green shoots. Maybe I should have shot a bird. Pioneering on this road to nowhere.

I knew the road wasn't going anywhere. That's why I took it, I had already left the highway two days before. I was traveling a side road when I saw this narrow trail meandering



Dropping their guns, the two billers gave startled cries of pain and staggered backward....

off to the hills.
"That's for me," I said. "The deep

hills for me."

I was wanted by the FBI I was wanted hy state, county and city police. And I was specially wanted by Senator. Spendwater's thugs. I should have killed the burn. I should have exterminated the brass-mouthed buz-

zard. I should have shut him up.
"Go on you dizzy road. I can go
anywhere you can."

I talked to the road, I told it what a claim fool it was, just wandering around. The road talked hack will joils and humps. I'd be lucky if I had any springs left. I'd he lucky if I had any springs left. The hood and knock my head off. Once in a while there was a cabin, a good ways back, I didn't stop. Me and the road, We kept on fighting it out, I slept in the car. When it was morning we took up the argument again.

The hills were closing in hehind us and all around us. They shut off the forty million dollar sun. We kept going higher and the morning light was unreal. A reflection from a hidden mirror. We went through a stand of nine that seemed to be under water in the strange light. There was a dark hollow on the other side. There was a settlement there in the shadows. It was hy no means a town. Five dilapidated huildings straggled along the left side of the road. One story frame shacks that had been there since the second year of the Revolution. The American Revolution.

There was a dusty, brown cur dog sitting in the road, Scratching himself half-heartedly. He let his leg silde hack in the dust and sat there in a sprawl, panting wearily. Or maybe he was laughing at me. The whole place looked like the end of something, I felt like the end of something, I felt like the end of something. I got out of the car and was surrorised at how stiff I was. There was a

gas pump in front of the second building. I went up on the broken porch. The door was open and I could see it was a store. I went in. It was dark

was a store. I went in. It was dark inside and the dim clutter was heavy with old smells of food and kerosene and home hrew and potato sacks. A

hig, spotted cat paced out of the shadows and looked me over.

I said: "Hello, puss." The cat came over and ruhbed some hairs off on my

pants legs.

Something stirred and creaked at

the rear, and a heavy voice rumbled:

"Git on outa here, Useless! Go on, git!"

I said: "What?" And the cat arched her back and hissed.

Something the size of a haseball whizzed past me. It must have gone out the door. I didn't hear it land. "Three for a dime," I said. "Go

on. Tgy it again you huzzard, and I'll hreak your arm. Who you think you're firing at?"
"That dawg," the heavy voice

grumhled. "Got the whole outdoors, an' he's alla time comin' in here to

cock a leg. You was in the way."
"You want to call your shots, Joe."
"You ain't got no husiness here

either. You lost?"
"No." How could I be lost when
I didn't know where I was going?

"No. I'm not lost. Just riding around."
"You won't git nowheres ridin' this

direction. Where ye hound fer?"
"No place special, Just taking a

holiday."

"H'mph! Way to take a holiday is settin' down, not chasing all over

the country like you was in a hurry to break your neck."

"That's what I'm looking for. A place to set—sit down. This looks

like a nice, quiet place. What's the name of it?"
"Name's Blue Gsp. But it ain't no place fer you. Ain't always quiet neither. When that crazy Chris gits to cuttin' up with his haunts and bogles..."

A MATCH rasped and moved to a flaring wick. The glass chimney was replaced and the wick turned down to an even flame. I saw a fat man sitting on an old couch. His heavy jowled face looked morose and resigned in the lamplight. His pouched

eyes were hidden in deep folds. He sighed gustily, and said: "What

you want, Annahelle?"

I thought he was talking to the
cat and I looked around. I never had

anything hit me with such a wallon. She was standing just at the edge of the lamplight. Maybe the soft glow did do something for her. But most of it was what she came in with. It wouldn't matter where she stood. She'd still have it, and I don't mean just her looks. She had thick, tawny hair and it was a little tangled, as if she had been running in the wind. It rippled down around her shoulders and moved with her breathing. She had the appearance of something wild and untouched which had stopped suddenly in mid-flight. Her round young face had a breathless look, the full lips parted, the tip-tilted nose lifted, the wide eyes elistening. Her eyes changed color and darkened as we looked at each other. She paid no attention to the fat man's question.

I couldn't say anything. I was afraid to. I was afraid she'd answer and, you know, spoil the whole effect with an off-key voice. But she didn't. Her voice was a soft, wondering numur.

She said: "Are you Peter?"

"I knew you'd come." She smiled like a delighted child. I wanted to touch her. She moved past me, and the magnetism pulled me around. It was a joy to watch her walk.

"Zig," she said to the fat man, "I came after a left hind hoof for a spotted mare. I'll get it."

Zig grunted and stayed where he was, and Annabelle vanished in the

shadows.
"What did she say?"

"Hoofs. I keep stuff like that fer Chris. He's crazy. You named Peter?" "Yes. Peter--" I caught myself. I

wasn't going to use that name.

But I hadn't! Annahelle had said
it. But she couldn't possibly know

it. But she couldn't possibly know who I was. The musty, cluttered store was suddenly atifling. The cat ran soundiessly across the floor and disappeared at the hack where Annahelle had gone, I was afraid she wouldn't come hack. I took a step

toward the shadows.
"Wait up," Zig rumhled. "You look
like you been in a fight. An' you're

sn packin' a gun." ny "That's right." if "Anyhody after ye?"

t "Mayhe."
s "The law?"
e "You scared of the law?"

"Hell, no. I am the law. Deputy Sher'ff." He wheezed like an old

engine getting up steam. "I don't wanta have to go to all the damn hother of arrestin' you, which I got to do if you got the law on your tail." "I never cared for over-enthulsaticlawmen myself. Let's just say you don't know anything about me. Or what I've got on my tail—if any-

"Suits me." His thick paw came up holding a long frontier model Colt. "This thing woulds went off if you

made any move fer that pepper hox you got under your arm. Makes a hell of a noise."

d "I'll het: Now that we decided not

to to shoot it out, where can I find a
nd place to stay?"

"You won't like it here."
"That's your opinion." I wanted

to laugh at bim.

Annabelle came back, and I did laugh Like a crazy fool. She laughed, too. Both of us. laughing. No reason, We were laughing at the world. We were laughing at everybody and every-

thing. What did we care? 'She said: "You better come on home with me." I went.

You never saw such a place-that house. It was about half a mile from the shacks, from Blue Gap, It was built on the side of the mountain with a steen slone behind and nothing but air and space in front. It was built out of stone and timber, and it had everything. Like an old time castle. Towers, balconies, big doors and little doors. It was falling apart. It was rotten with age and neglect. It was like a hum with elegant manners. But I didn't laugh. W/E HAD quit laughing long before

I saw the bouse. That thing between us was overnowering, and sobering. It was exciting just to walk beside ber. Sometimes my hand brusbed her dress. It was a faded blue sack with something tied around the middle, but on her . . . She walked with both hands cupped

around that damned hoof, holding it against her breast. I wanted to knock it out of ber hands. She talked with that soft, eager voice. Like a serious child.

"Us Delanceys, we been bere a long while. Now there's just Ma and Pa and me-and Cousin Bolt. I'm pledged to Cousin Bolt, but I don't want for you to let him have me."

"I won't," I said, I was sure of that.

"Chris told me." "Told you what?" "About you."

"He doesn't know me." "He knows."

"I'll have to talk to him. Where is

he? Around here someplace?" "In the house. He's been there a · long while." "But he's not a Delancey."

"Ob, no, He's a wizard. He came

over the mountain." There was a ragged path around

one wing of the busted castle, I followed Annabelle to a big, stonepaved kitchen at the rear. The place must have been two hundred years old. At least, There was a monster fireplace, black with age. The huge beams in the ceiling were black. seasoned with a couple centuries of lusty cooking. There was a ten foot table, worn deep in spots, bleached with scrubbing. There were copper and iron pots, and antique cupboards big enough to supply an army. There was a big, hulking brute standing in the middle of all this.

He was standing upright. He should bave been down on all fours. He wasn't two hundred years old. No. Two hundred thousand would have been more like it. He was a throwback, and be went all the way back. Annabelle stopped and I felt my

hackles rising. She took a step backward. I reached for her. It was like touching a live wire. The shock of it ran through me and shook my brain, I had an insane urge to shoot this thing down. Destroy it. Wine it out.

"It's Cousin Bolt." Annabelle said. I knew it was. My own rage at

sight of him told me that. Mean little brute eyes were jumping around in his head. Taking it all in. The way

we stood. My hand on her arm. "I'm gonna whup you, Annabelle."

He droned the words. No expression. A talking animal. I knew I had to take him, 'I didn't

think I could do it. Not with my bare bands. Not the shape I was in, I took a hell of a beating getting away from

the Senator's boys. I'd been traveling for three days, losing sleep, missing meals. I looked at him, and I felt like Methusaleh. With crutches. A gong sounded. The first round.

I almost jumped in Annabelle was in the way. Fortunately. Anyway it was the wrong gong. Not sharp and clear. It came from somewhere deep in the house and the sound spread in waves. Going on and on, and dying in a whisper. We stood there like that, Like a still from one of those

gorilla movies.

A tall woman came into the kitchen.
She wore a patched gray dress, and
she walked like a queen. Her bony
face was taut, her deepset eyes were

like everything else. Like the end of something.

"Takin' up with strangers!" she said bitterly. "Ain't you 'sbamed?"

"No, Ma. It's Peter. Chris told me he was comin'."

"You're lyin'," Bolt growled. "I'm gonna..."
"I am not lyin', Bolt Delancev!

And you better keep your big hands off me. I'll tell Chris. He'll put a spell on you."

The deep toned gong sounded

again.

Bolt cringed and looked around.

Mrs. Delancey's head was rigid. Only

her eyes moved.

"Show him the way, Annabelle," she mouthed coldly. "An' don't let me

ketch you dallyin'."

Annabelle stirred against me. "We better go up," she murmured.

WE LEFT the kitchen wing where the family lived. The rest of the bosse was a crumbling labyrinth of halls and empty rooms. Broken windows had been boarded up. It was adark and musty. Rats or squirels scampered and russled through the tuni. It was no place to daily. We went up a stairway with carved banisters. There was a wide hall across

felt the front of the bouse. Annabelle pried at massive sliding doors, with and ber fingers, and I reached around was her to pull them apart. I didn't get t them open. Not right away. All that and hair. It was alive. It clung to my teep face. And under my hands all that ead vibrant vonus wildness turned.

The doors slid open and there was a lot of light. Something hard and rough was pressing my right ear forward. It was the boof. She still had it in her band. I reached up and pulled her arms down

she walked like a queen. Her bony face was taut, her deepset eyes were standing in the doorway. Looking at cold. She belonged here. She looked us with bright brown bird eyes, his like everything else. Like the end of

"Excuse me," he said. "Yes. Excuse me, hut I bave been waiting for quite some time."

"Hello, Chris," I said. "I want to talk to you."

"Of course. Of course you do. The

proper way would be to come inside. Give me the hoof, Annabelle. Now you run along, my dear. Peter and I don't want to be disturbed by your ...h'ml Come in, Peter. Come in. You've got yourself in a fine fix, haven't you?"

"How do you figure that?"
"Got it on my tele-transit. No. no.

Annabelle. You cannot come in now. Go help your mother. She has been complaining again about the way I spoil you."
"I found him," Annabelle said

"Well, yes. You did in a way, hut-Dear me, I should have thought of

Dear me, I should have thought of this. I suppose it's going to complicate matters. She is a dear little thing, isn't she, Peter? Would you mind asking her to step outside. Perbaps she'll mind you. We baven't much time. I think you may be followed here, unless we can arrange things."

"All right, baby," I said. "You go downstairs before your mother gets

good." \

mad. I'll see vou." I turned her around and natted her lightly. She didn't like it, but she went. She had a temper under all that sweetness. She twitched away from me and

whirled out the door. "You and your fool talk!" She was like a kitten spitting at a couple of surprised tomcats, "I'll show you!" She went away from there like a streak of lightning headed for large scale destruction.

Chris shook his head and clucked distractedly. He closed the doors and muttered: "I always forget to allow for the unknown quantity."

"That's a new name for it," I said. "But it fits. You don't look crazy to me "

"Oh, hut I am, Yes. Completely crazy.'

"Cut it out. I'm no hill-hilly. What's the set-up here? What's the idea of that hoof routine?" "Glue, I make it myself,"

"Out of a left hind hoof from a spotted mare." -

"As a matter of fact this came off a mule." He turned the thing in bis hand, peering at it. "You are right about the-er, routine, however. It

is quite necessary, you see?" "No, I don't. Let's quit being polite about it. What do you know

about me?" "I picked you up on the detecto-

graph. When you turned off on that road. I wanted to know why, I used

the tele-transit to find out." "Very simple. Now let's see if you can say it without the double talk."

"I'll do hetter than that." He gave me a sly look, "I'll show you, Come into the next room."

I took one look at that next room The conglomeration of junk. I thought, Oh, hell! The guy is crazy

after all "I'm crazy, you see?" He looked around at me with that sly gleam.

thing, anywhere, any time. You talk about television-crude stuff, Primitive. He was crazy, sure. He was so radical, he had been discredited when he was a young professor at the University of- Well, never mind the

"Ouit reading my mind. Let's have

the demonstration. And it better he

IT WAS. What this guy had was a

right. He could take a peak at any-

kind of cosmic peep show, That's

name. They still think he's crazy, if they remember him at all. He told me all about it. After I saw what he had. I could understand then why he picked this spot. I found out why he picked me, too. He had a little chore

for me. "Now, if you'll just step over here," he said, and hegan fussing with a contraption that had a long tube

pointed out through the open french doors. He turned something on the side of the ashestos covered furnacethat's what it looked like, a cylinder shaped furnace with a pipe leading outdoors. What he turned looked like a valve off an old steam radiator. There was a ragged crazy quilt draped

across the back end of the thing. A churning noise started up, inside the furnace. It sounded powerful, I looked around at the accumulated junk. The place looked like the back end of a radio repair shop, with a lot of extras thrown in. I didn't see what I- was

looking for. "Where do you get your juice?" I asked, I had a funny feeling I wasn't going to like his answer. I

didn't. "The power? I've tapped the original source. Cosmic force. The stuff that makes the world go round. I never use the amplifier during the

day. If the good folk of Blue Gap saw ghosts in broad daylight, they might be alarmed. We'll have to use the sono-vizor."

is.

"I hope you know what were doing," I said, and reawled under the craxy quilt with him. I couldn't see much at first, but I got the impression he was twiddling dials and public knobs. The churning bushle knobs. The churning in the control board began to glow, and the soft bunning turned into mumbling. Something was meving on the plate and I bad to bend down to see it.

"What the bell!" I said. I was looking at a couple of gals in a fancy bedroom. It looked like they were dressing for a party. But they badn't not very far. With the dressing, that

"No, no. Wrong room," Chris muttered. "Mickey and Doris. Two little friends of your former employer." His bands moved expertly over the board and the gals faded. "You don't know them."

don't know tnem."

"They weren't very clear. I didn't get a good look."

"It's just as well. Now, don't be surprised at anything you see."

I wasn't surprised. I was sick. I sat on the edge of my bed in the hotel room. I had my coat off and my tie loosened. The phone was ringing. I set the highball glass down on the glass-topped stand. I picked up the phone and the whole thing started hanpenine all over seain.

"Hello," I said, and my voice sounded raw. "Yes, this is Pete Grove. No, I haven't got a cold. Yes, I'll be right down."

I put the phone down and get up and put on my coat. Then I took it off again and put on the gun. I buttoned the coat and tightened the lie. I brushed my hair and went out and downstairs. I had been summoned to the presence of the Great Benefactor, that sphendid American and man of the people—Senator Baldus

K. Spendwater.

The senator bad a convention sized satis off the merzanine. I went past the reception committee like I was in a burry. I was. The two capable bouncers—the reception committee, just looked at me. In the next room two stenographers were beating bell cut of two typewriters. Young Glanzer came out with a bandful or corrected coor sheets. Press releases.

He was busy. He just glanced at me, and said: "Har, Pete." I went through two more rooms. Everybody was busy. The door to the sanctum was closed. I hit it with my knuckles.

That Voice said: "Come in, please."

THE SENATOR was tall and lean.
What was it that Shakespeare
character said? "Methinks you Casr sius hath a lean and hungry look."

Methinks the senator had it, too. He was standing beside bis desk, at ease, waiting for me.

"Well, Pete," he said kindly. "The

boys tell me you are dissatisfied. I thought you were one of my most enthusiastic supporters. I bad you

marked as one of my most promising young men."

g "Promising" I said. "That's a good to word. That's all you've been disbing e 'out. You're one of the most promising d Presidential candidates the country ever saw. You've been promising e everybody everything. It sounds good e the way you tell it. A regulas con , artist. That's you. What a spiel—for , artist. That's you. What a spiel—for

the suckers!"

"Pete!" He was a stern father,
dealing with the family black sheep.

"Don't be insubordinate."

"Yah! Already you start making like a dictator. Insubordination in the ranks. Next comes the purge. But not yet, friend. You baven't moved into

that white house yet."
"Pete, what are you talking

about?" He looked pained, but patient. Oh, he was good. "As if you didn't know! We both

made a mistake, brother. It was my mistake when I told you about the Guild. About the secret organization spreading all over the country. A citizens' army. Meeting and drilling a in secret. I thought you ought to investigate. I thought vou ought to exnose it. It was your mistake when you told me it might be a good thing! When you told me I ought to join it. I joined it. And then I found out your campaign funds are being used to support it. Sure, I've been a sucker. Just like all the rest. But I can still add two and two. One, two, three, four. L can still count. As soon as you're in the White House, you come right out and give the Guild your official blessing. What a set-up! What a-"

He slapped me. He knew what he was doing, He knew Yd lois em yhead. I did. I went for him. He yelled and I smashed him in the mouth. He was no stouch. He landed a punch on the side of my head that jarred me I hit him again and stammed bim back against the desk. And then they were on me. The bully boys. The reception committee.

"No shooting!" the senator was squawking. He meant the committee. I didn't bave a chance to get my gun. Not then. I used my feet, I used my fists, I used my bead-butting like a bull. All I wanted was out. I made it. I got away from them and fell up against a glass fronted bookcase. The glass shattered and stabbed me in the back, but I bad my gun out then, I held them off, There was a side door. I knew it was locked. I sidled over there and reached behind to turn the lock: I went out the door fast and ran to the rear of the mezzanine and down the back stairs to the parking lot

The image on the plate blurred, the glow faded. I felt like I was smothering. Under that crazy quilt. I backed out and blinked at the daylight. I reached for a cigarette. I felt like bell: "You know," Chris said. "I believe

you're right about that man."

"I know "I'm right," I sadi sickly,
"But I fouled it up good. I gave him
an excuse for more guards. And more
publicity. I didn't prove a damn thing.
I just made it easier for him." I felt
worse now than I bad before. Before.
All at once I got fit. What I had just
seen.

"Hey, wait a minute!" I yelped.
"You can't do that!"
"No." Chris said sadly. "I can't.

Not where anybody would find out about it. In the future, perhaps. But not now. In the future I think cities will be underground, insulated against the tele-transit and-and other devices. Or perbaps men themselves will change into creatures who can be trusted to use the cosmic forces properly. But not yet: Today my tele-transit would be a dangerous engine of destruction if it were turned loose in the world. Men would kill and rob, commit every crime to possess it, and then use it for evil purposes. But I bave much hope for the future." "Can't you tune in the future?"

"Not yet. I'm working on it. A different principle altogether. With the tele-transit I can pick up anything that has already taken place. The other night I had the battle of Waterloo. Out there." He waved a skinny band at the space and depth outside the french doors.

"You mean you can project this stuff—life size?"

"With the amplifier. Yes. The

battles are interesting, but too noisy. I'm afraid folks over there in the next county may hear. They might investigate."

"I can imagine that. I can just see you explaining that you were running off the battle of Waterloo." "Yes, It's quite a problem. But I

am fairly safe here. So long as they think I am crazy, no one will interfere. Now let's think about your problem."

W/E THOUGHT about it. In spite of all bis knowledge and power. or maybe because of it, Chris was an innocent babe. I had to explain Senator Spendwater's double personality, his double dealing and double talk. It took a little while, but Chris

finally got it, and clucked sadly. "The type is familiar." he sighed. "Wolf in sheep's clothing. He poses as the friend and benefactor of the people in order to cover his plot to devour them as soon as they give him

the power. He ought to be stopped." "That's what I thought," I said bitterly, "But I messed it up good Now I'm being hunted down as an assassin for punching the mighty musbmouth in the teetb. I should have killed him."

"No. no: Exterminating the man would not defeat his evil principles. On the contrary, it would promote them. He would be exploited as a martyr by others who will seize upon his ideas and his organization for their own use. You must fight him with his own weapons. Expose him. Use bis own acts, public and private, to condemn him. In this case I shall be willing to use the tele-transit in current affairs. You will he allowed to witness the man's most secret activities. You will gather sufficient evidence to prove his true character. and cause his downfall. But-" He paused to fix me with his bright bird eyes. "The source of your information must never he known. Never!"

"I won't give you away, Chris," I said softly. Excitement had me by

the throat. I had begun to realize what I could do. "If I have the evidence, I'll know what to do with it. The Senator has some enemies, a little opposition. It's not very strong because he has a powerful organiza-

tion, trained to go after anyone who dares to oppose him. And no man living has been so Simon-pure that he can afford to let the Senator's trained dogs drag all his secrets out in the open and expose them to the public gaze. Especially since the dogs have a talent for making them look and smell worse than they really are. The Senator had ruined many men. both good and bad, in his rise to power. He has made enemies. They wouldn't listen to me before, because I was one of the Senator's pets; but they will now."

"Yes, but how will you explain-" "I won't need to explain the source of my information. I was close to the Senator, but nobody knows how close, All I have to do is tip them off. Tell them where and bow to look for the evidence. Give them names, dates, places. Facts that nobody has been able to get. Because the Senator's defense is as powerful as his offense. Once they find the evidence for themselves they won't bother to ask me how I knew. They'll be too busy using it to care. You'll be safe. Chris. Giving you away wouldn't help me a bit. Let's get busy."

"One more thing," he said diffidently, "There's a-there's something I'd like you to do for me in return for my help." "Anything I can, Chris. Believe

me. Anything." "It isn't anything very difficult.

Are you married?" "No." I was startled.

"You will be, I expect, I hope you raise a large family. I want to deposit a-something, with a family who will guard it and band it on from generation to generation. It's a manuscript

for posterity." He rummaged around in the junk heap and brought it to me. A large

notehook in limp leather cover. I looked inside and saw a lot of outlandish mathematical symbols which had no resemblance to any kind of mathematics I bad ever heard of.

"Good Lord, Chrisl Nobody can understand this."

"No. Not vet. But some day science will catch up with it, and it will be perfectly clear. I am sure that by the time men are able to understand my theory of cosmic energy, they will also have the wisdom to use it properly." "You sure you want to trust me

with this?" "Of course I'm sure," he said testily. "You can't possibly use it. And after seeing what my machine can do, you will certainly not destroy it. There is only one thing you can do. Hand it on as a legacy in the hope that one of your remote progeny will have the honor of pub-

lishing it." I was emharrassed. All I could think of saying was an inappropriate wisecrack about my nonexistent progenv. I din't make the crack because Annabelle suddenly filled my mindwith possibilities.

TT WAS late afternoon when I went downstairs. Ma and Pa Delancey were there, and Cousin Bolt, But no

Annabelle. "Where's Annahelle?" I demanded. They looked at me with stony hos-

tility. Pa Delancey was dull and lifeless. Ma was the hoss here.

"I can't do a thing with her since you come," she said bitterly. "Wouldn't do a lick of work all day.

Now she's gone off down the road. I'm gonna lock her up, soon as she gits back bere."

I started toward the door and Bolt got up. Not now, I thought, I can't stop

for him now! If Annabelle had gone down the

road, she was going to meet two of the Senator's bully boys. If they got her, I was licked Chris and I had been so absorbed in the Senator's private life, we forgot

the time. Until the radar-like contraption be called his "detectograph" gave a warning buzz. He switched the teletransit to the road, and there they were. Right on my tail, and coming fast. That's how good they were. They were way out in front of the pack that was hunting me down. Allowing for the time lag, figuring that what we saw had already happened, they must he close to Blue

Gap by this time... Bolt shuffled toward me, his big arms swinging. Ma and Pa Delancey sat there calmly. I let him come on until he was almost within reach. His thick arms lifted. His fingers curved. I moved fast. I threw everything I had into that one punch. It landed

on his jaw. Solld. It was a solid hit. It was all I had. And he turned around in his tracks as I went past him. Watching me. He didn't even know he'd heen hit.

But I knew it. My whole arm was numh. I kept moving away. He was drooling out of a shapeless mouth. He was hreathing deep and loud, I kept moving to the side. Turning him around. When I thought he was off halance I hit bim with my left, and jumped back. He stumbled and I hit him again. All at once be got it. He was being hit. He was being hurt by something he couldn't get his naws on. All at once he was scared.

"Maw!" he hellowed, "Maw-make him quit!"

I bit him again for luck. w ... "Nah: don't!" he whined. He put

his arms up over his head. Big, they were big enough to crush a man. All

he needed was a hrain. "No need for you to he knockin' · Bolt around that way," Ma Delancey said. She got up and stood there stiff

as a poker. She pointed a rigid arm to the door, "I'll ask you to kindly " leave this house."

"He hit me!" Bolt whispered. Maybe it was funny, but I didn't

think so at the time. I ran out the door.

My car was still standing in front of the store. Zig was still sitting on the couch inside.

"They's another car comin'," he

rumhled accusingly. "If you're pointing that cannon at

me, out it down. It's not the law." "They're after ve." "That's right. But they're- Look.

Zig. I haven't got time to explain it all now. They're wrong guys. Chris

can tell you." "He's crazy." The cat ran out of the shadows

with her tail lifted. Annahelle came after her, scowling at me.

"All day long," she said. "It took you all day long to come after me. I might heen clear down to Eden hy

this time!" "You can't stay here, hahy. You've

got to get out of the way." "Why?" "Because the men coming here are tough guys. And they're after me. You

might get hurt. I don't want anything to happen to you," CHE SMILED then and walked

S toward me. She didn't say anything. She walked into my arms. I kissed her. I thought it might be the last time.

"Who'd you say these fellas was?"

Zig rumbled loudly.

I heard it then. The car. They were here. I pushed Annabelle toward the shadows at the rear. The car stopped outside. I couldn't get Annabelle

"Bahy, let go!" I panted. "I've got

I heard their feet on the porch. "Whoa!" Zig hellowed. "Wait up,

now. Don't he comin' in here with guns!"

I tore Annabelle loose and shoved her. She fell over a box.

They saw me, "Come out easy, you-" one of them said, "And put up your hands. We'll take you back

"Where's Annabelle?" I yelled at , in one piece if you hehave." I didn't move, "You're lying. You

don't want to shoot me down in front of witnesses. You want to get me off where nobody can see it."

The second one swore at me and lifted his gun. "You coming out right side up, or do we have to drag out your carcass?"

"You'll have to do your shooting here. I'm not coming out. You boys are on the wrong team. I don't obey

anyhody but the law." "Drop your guns!" Zig roared, and they hoth opened fire as he added:

"In the name of the law-" Zig's cannon roared. I crouched in the shadows and fired.

We got them both. I think it was the surprising hlast of Zig's cannon that threw them off. They staggered together and went down. With a

barrel of crackers. Zig grunted and heaved himself off the creaking sofa.

"More damn trouble," he grumhled. "Now you git on outa here, 'fore you bring any more fancy gun slingers up

this way." "I'm going," I said. "Much obliged."

I was in a hurry. And I meant to take Annabelle with me. I was afraid he might stop her, He didn't. He was down on the floor with the dead men. going through their pockets. I left my car and took theirs. It

was faster and much safer.

Annahelle was frightened. "Where we going?" she asked. "The nearest town, hahy. Eden. Is that it?"

"Uh-huh: I guess."

"You show me where to turn oit." She showed me. A cow path. I never would have found it by myself. It was no better and no worse than the crazy road I came in by. But it was a shortcut to civilization. There was a postoffice. I fired my first round of special ammunition hy airmail. Addressed to certain newsmen

who would he sure to investigate my inside tips, compare notes, and start the hall rolling. I knew exactly where to place my shots. With men who hated and feared the Senator for various reasons. And I told each of them to contact the others for the complete story of their separate investigations. If they worked together, and worked fast, the Senator would not have time to cover himself against their combined attack. And the element of surprise would be alarming. because none of that inside information could have gotten out through

ordinary channels. He wouldn't know where he was going to be hit next. He didn't wait to find out. He swallowed a cyanide capsule and died like a dog. And his whole flashy

organization collapsed. Like a tawdry stage setting where an imitation, Caesar had strutted and died. I didn't waste any time. As soon

as the pressure was off I got married. I've got to have a family so I can hand this thing on that Chris left for posterity. It's all that's left now. Chris is gone. The old house is gone. Zig told me when I went after my

car. The whole thing crumhled apart and fell into the chasm one night, "I knowed she was due to go," Zig

growled, "I kep' tellin' them Delanceys. But that's all the good it done. They wouldn't leave that old pile for love nor money. The cat misses Annahelle." - "T'll 'het."

"What you do with her?" "Who?"

"Annahelle, you tarnation fool! You think I didn't see you sneakin'

her off in that car?" "You ought to he ashamed of yourself!" I said hotly, "What kind of a

lawman 'are 'you-letting innocent young girls be snatched right under your nose? Why, you're worse than-Put that cannon down! I married her!"

"This thing would went off if you laughed. Instead of gettin' sore. Makes a hell of a noise. "It does at that," I said soherly,

"But I'd hate to have it go off and not hear it." THE END . .

CYBERNETIC OUIBBLE

* By A. MORRIS

HIS MAGAZINE has jumped eagerly This Managers in the cotten to bring to you discussions of, and articles on, that precursor of the future, the science of cy-

time machine into the near future: it is a gimpse of "things to come". Consequent-ly when we discover that in the scientific world there is some controversy involving the subject, we're bound not only to list with both ears, but to get into the act

Cybernetics essentially deals with the technical processes of making things automatic. Cybernetics can be as simple as an ordinary oil burner-thermostat set up —or a giant calculating machine. Human beings are cybernetic devices, in a way; and this is what leads to the controversy.

One school of scientists says that the One school of scientists caps that the world is becoming so complex and automatic mechanisms are becoming so compressed as automaticity will extend into almost everything. Furthermore this school asys that eventually it will be possible to build a machine so closely analagous to the human saind, that that machine may

be said to think. The second school agrees with the first part of the above statement but when it comes to the latter part about creating thinking machines, it says un-un, no soap. thinking machines, it says when, ho assay, Now if you're interested in the matter you belong to either one group or the other. As for us, we'll string along with the first bunch. We do think the day is com-ing when thinking machines will be made. On that score we're positive. Even the relatively crode experiments of zeientists today, ranging from the marvelous automatic computing mechanisms to the little mechanical animals, "Elmer and Elsis". mechanical animass, "nimer and none; assure us of that fact.
The "no-go" group maintains that while automatic machines are marvelous and

automatic machines are marvesous they will do just about everything claimed for them, they still will not approach the for them, they still will not approach the human mind, the most complex machine, there is. Well, that, we think, isn't true. The mind is tremendously complex and impressive while the machines are relative children's toya. But remember, this is only the beginning Naturally there can be no conclusive answer to this conflict-yet. But we think

answer to this conflict—yet. But we think that within the aext for decades, even allowing for the possible laterfarance of control of the possible laterfarance o

ENOUGH TO RAT?

* By CAL WEBB *

WITH THE world's population jumpprophets of gloom are carrying on with their predictions of an eventual Malthusian death—"a neo Malthusian death" they redeath—is now fullmains death—flav year to the This is home of the famous eventual schassition of the Earthy food sometime of the Carthy food to the Carthy food the Carthy food to the Carthy food the Carthy food to the Carthy food to the Carthy food to the Cart

so many years ago when the exact opposite was predicted. Man is destrowing himself, the prophets cried then. And whole nations offered bonuses to their people to encourage them to have large families. Why the sudden change? There neems to be a series of cycles ex-tant, which we may likely witness once more. As a living standard increases over

sorre. As a living standard increases over a long period of time, it seems an inevit-able corollary that the birth rate goes down. This experience has appeared every-where on Earth where there has been

time for the living standard to go up greatly. Where it is low, almost automat-ically the birth-rate is high. During the recent wars, however it has been observed that the birth rate went up and it is this fact, that encouragee the neo-Malthusians

fact, that encourages the neo-hamminans to make their fearful ery.

We suspect that it is only necessary to watch exercitly over the next decade or two, particularly if there is some peace and some accurity, to discover a gradual dimination in brith-rate, Popole want furdiministron in settle-rate. People want tux-uries at the expense of children.

Therefore, in light of these observations we may safely predict that we needn't worry about the rat-race between popula-tion and food supply. It will stabilize itself eventually. Another-and perhaps decisive factor—which may intervene, is the fact that technology is changing the farm-ing methods of the world, and with every bit of available arable land brought under cultivation, aided by hydroponics and all the other agricultural techniques, there will be no danger at all that insufficient food will be around. Also there is the vast, practically untapped reservoir of the sea.

So, we can safely thumb our noses at the neo-Malthurians. They are false prophets of doom, wise only to short-term events, not looking at the broadest aspects of the events they deery. Pass the potatoes, friend-I'm hungryl *

READER'S PAGE

SCHOOL'S OUT...

Dear Relier:
Ahh, the teen-age-fan controversy is here again, I was hoping it would turn up in again, I was hoping it would turn up in a series of the serie

Of the remaining seven I am only sure that Craig Browning ins't under twenty. The rest may or may not be, but it's likeby that at least half of them are. That makes 9 out of 13 who are been-agen. Yippice, we're going places." But let's face it: It doesn't take a superintellect to understand most sit. In fact,

But lefer face it it doesn't take a superpublisher to understand most at it in fact, produced to the superties of the super-like and the supersignation through and the supersignation though, and that's one of the thinger that counter; comic hook because, most temperature of the superties of the superties of the superlation of the super

above average. Let's telf ourselves we are, just to baild up our ego, snyway. Over Then too, the word, "been age?" seven years, in fact. A tech-age?" seven years, in fact. A tech-ager may be 18, 19, or anywhere in between and still be called prade bext year or graduated from collect and the still be all they are fairly common trees cases, but they are fairly common trees cases,

Theories a lot if difference in the ability of a grammar about lide to understand of a grammar about lide to understand as a force in a convenient of the ability of the ab

this letter (if it gets published) so Pd better leave it now. I can't find words to tell you how slad

and the second to the property of the property

of Fas-Farr's ed in heach; creat Those with the commission with the commission with the background of invender mountains; blue-sky, blue-looking mow, crystal-tear ice and a visita cover fast mountains; and the golden visita cover fast mountains; and the golden rips on the end of their great black roatily do wonders for the cover. Ones, there's just one mannoth, but what matter's just one mannoth, but what mat-

(2) Lots of people seem to have something wrong which I want to clear up: There's a great fan club named Young Pandom which many fans think is for young fans. It is, but not in the sense that that they must not have been fans loug-Get '17' Good. Now you can join Young Pandom whether you're 3 can join Young 1 close with the poemise to write again next month, even If Ta in Royan, when

315 Dawson St.
315 Dawson St.
We'd like to esho what you said about by
fans having more imagination than the
average. Maybe what the world needs is
a few more dreamers.

A BUSHEL OF ORCHIDS

Dear Editor. Congretulations on the September of FA. Somebody should need you a bush-

of FA. Somebody should send you a bushei of orchide. You should have more stories as good as the ones you published this
time. The likes were all good, too.
THE WARRIOR QUEEN OF MARS
was the best story in that superb ish,
THE LAST BOUNCE next. Third en my
lies is LOPELEN STREET, and all the rest come fourth. Jones is, as usual, excellent on the cover ad I'll pick Sharp's pic on pages 54-55 as the best interior.

as the best interior.

I read AS about a week ago and it was good, too, YOU CAN'T ESCAPE FROM MARS being the atory to receive top rating in my book. ing in my book.

Why don't your artists sign their names to all the pice, I always sign mine and I don't find it too much trouble, nor do I miss my regular meals by doing so.

how about some more cartoons next time? how about some more cartoons man anner. Maybe you can't find cartooniats to work for you. Whatis matter? Run out of mon-ey? I'll cartoon for you if you may the word (aitho it's no fun just reading your own eartoons, exerct that the money gives

you some fun). Say it!

Well, since this is only the second issue
of FA that I've read, I won't say any
more about it, but look for me next month.
I'll be around (I hors).

Harold Hostetler

Cairnbrook, Pa. Wa're always bedding for good cartoons. I) you think you've got a few, try your hand After all, our rejection slips are as goo

as anabody's!.....tol THOSE GREAT OLD YARNS

Dear Bill Hamling: I don't want to prolong this controversy over reprints, but please permit one last rebuttal, Naturally, there's nothing personal in any comments I make. You may not recomber that I used to subscribe to a fan mag you edited—and it was a good one, too.

Now for this reprint issue. I still think there are enough markets for the good writers and that the reprint mag won't hurt anyone but the hacks. I am not ophurt anyone but the hacks. I am not op-posed to adventure—many of the old yarns

like to re-read some of the old stories and lies to re-read some or one on the con-'m sure others would, too.
It's true that Smith's and Campbell's forles are out in book form—some of stories are out stories are out in book form-some of them, anyway. But just tell me where I can get a cony-at reasonable cost-of AR got a cop MA got a coty-at reasonable cost-of DRUMS OF TAPAJOS, TROYANA, SUB-MICROSCOPIC, AWLO OF ULM, SWORDSMAN OF SARVON, THE LADY DF LIGHT, and other varus by Hayl Vin-



of Wander-Stephoton

GET ACQUAINTED OFFER

READERS SERVICE BOOK CLUB.

ADDRESS

cent, John Campbell, Jack Williamson, and the others that flourished in AMAZING'S heyday.

My criticisms of FA were hased on oldfressens. Recently you've improved The

citizione of FA were, hased on older seues. Recently, you've improved. The stories by Sturgeon, Lisiter, and the forthcoming Hubbard notel bespeak a new era. I'm giad to see it. I used to like FA. It can be great again, but upane leave sifto AMA AUNG. I'm reading FA again now, though the extreme to save loss back again to hack—at least in the lead novel. Asked.

to hack—at least in the lead novel. AMAZ-ING I still can't take yet. I'm waiting to see if this change to a slick is really going to improve the stories. In conclusion, I'm reserving jusgement on the current mags. But there's no don't about the quality of the old ones. So, if you don't want to reprint those great yet.

you don't want to a service and to so?

Donald V. Aligeier
1851 Gerrard Ave.
Columbus 12, Ohio

PERFUMED PAGES YET!

much. Esp. the novelette WARRIOR

much. Esp. the novelette WARRIOR QUEEN OF MARS. It, in my opinions was the best in the mag. THE LAST BOUNCE trained a color second.

Glad to see that FA is using some stories about our own solar system as well as the color of the color of

system, that is:
Keep up the stories on Mars and the
others. SIF Fandons is point to get a lot of
any the stories of the stories on
any the motion picture. ROKETISHIP
X-M and enjoyed it very much. I asked
a few people what they thought about it
SF was a lot of junk for 7 and 8 year
olds. Now they are a little interested. I
referred them to the different SF Proterior of the story of the story of the story of the
SE was a lot of year. The story of the
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SE was a lot of year. See the story of the story

sure that once they start, they will not be able to stop.

NO HEAD FOR MY BIER wab a little too far fetched for me. It did not have any scientific basis at all. Same with THE FIFTH CHILD.

Have been -hatching a little idea for guiter-swhile, so I might as well tell you. Why don't you start a little SF dictionary for your readers. Explain a little about the different terms used in SF stories. And explain the lings the SFFan clubs mue. They have so many terms and letters that I get a little confused. I'd be willing to key the first copy from you no

matter what the cost. Oh yes, what exactly is a space warp anyhow? That is just one of my problems. Enjoyed reading Morton Palcy's letter to you. Even though he is a member of the Cantaurians, I agree with you on the idea of having each and every story complete.

Cantananasis, agreed with you on the leads at the continued next month. It griess me to get to the most exciting part of a story to read that it is to be continued next month.

Oh yea, what is all this about our little hady "Tottee" All of your fams seem to hady "Tottee" All of your fams seem to furme on those pages? Well? Howmson when the continue are those pages? Well? The many large that the continue on those pages?

Secretary-Editor The Centaurians 7 Richard St. Rochester 7 N Y

That stf dictionary sounds like quite a project. Anybody care to take it on?...wik

FAN MAGS, CONTESTS, AND THINGS Dear Bill: The latest FA has come to attention...

may my i-thoughs when i-mandled such a stration, it came out like that, but I expected no professional to be gully of such trits, stereotyped material.

My when there are so many things

My ghod, there are so many things wrong with the abory that I won't even bother to pick it apart. I won't be surprized if you don't get any more letters than one praising that story (Calvin Thomas Bock and/or pseudonyms will, of course, be present). So I'll skip to those that did have some

walne.

THE FIFTH CHILD was very good, also
though there were one of two conflicting
points in the story; which same I shall
goint in the story; which same I shall
story which same I shall
same I shall shall shall shall
same type
of story, and about as good, although had
to been better written it could have anproached greathers. IEE LIST BUBY CHI
proached greathers. IEE LIST BUBY CHI
mediocre. Are Phillipp' obler writing, activities ancreokeding on this 24(7-Day's standties ancreokeding on this 24(7-Day's stand-

DETONATOR was poorly handled, but a still readable. NO HEAD FOR MY BIER was funny; can't make up my mind whether intentionally or no.

LOOK FAST FOR MOLECULES, one of your feature, resident no of something interesting, which parhaps should have been included in the article (by the way, I see you're getting back to the old informative type of filler; I still say, let the first itself is the best instrument for bigh magnification; yet its very nature precludes the

possibility of ever seeing an electron! Ergo, if an atom is as pictured diagrammaterally, then the only thing we'll be able to distern is the nucleus. But I guess we've got a bit of a way to go yet before we dewing the microscore that far.

when the micronicipe that far, of late, Proceeding I were represented to write you. In this, the last methods of the late of l

tera-from-readers feature was discontinued for a few months

Post. Come closer. Bon't tell anyone, but ... I have it sight from the Dore who intermed the boundary of the common tell of t

to say annething thee about me. Bobmethod knows secondary should be
Mewhin has no cause for worry ecouring the perality of at Of last, there has
get be practify of at Of last, there has
cheding me), due ministy perhaps to the
increase in p-4 publications and the vertatility of the Younger Generation; bendes,
mental the property of the property of the
Meyer, like women, is insistent of PAN.
Wall, well, well Two mentions of PAN.

The hardest thing about a fastine is selling it. The quality of year merchandles really has little to do with it, since it's impossible to show it to the prespective beyons, and they are surchastate kindly! as a seed fastine is that Sam Mervin outs you on his "A-hist" in STARTLING STO-RIES And you have a point to start from in your selveriding.

The property of the start of the property is the start of the property in the start of the property is the property in the property is the property in the property is the property in the property in the property is the property in the property in the property is the property in the property in the property is the property in the property in the property in the property is the property in the prop

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.....

I can say modestly, one of the best fan-zines being put out—and what is more im-I can any modestity, one of the best framework and the protection, on which is of interest to a passion. Yet if my prospective beyond the properties of the

as good as a thousand words over the ra-So what can I do? I cut my price as much as possible, come out with such offers as "Send 6fc for 6 issues and if when you have gotten three issues you are not astisfied that, you are getting your money's satisfied that you are getting your monay's worth, merely ask us to stop your subscription and we shall reture See of your subscription, and sit back and pray. Actually, at this point I could carry on actificatorily with what I have, but I'm not satisfied—I whou to increase page number attacked—I whou to increase page number satisfied—I who the satisfied—I who to increase page number satisfied—I who the satisfied in the s ber, make up special issues like the projected four-dozen page Anniversary Is-

biological ton history Your editor realizes, even if you readers don't, that I have just sneaked in a page of free odvertising; if he didn't, he known it now. I hope it stays in.

Well, the letter column was nice this issue, long too, Good, Keep it that way; and I'll coatinue to "help" by writing one-page letters and three-page advertisements. Before I go, another idea ... Why not work out something like this: have a con-

tinuous contest open to amateur authora for a story of a certain inclusive length (2,000-3,000 words or something similar), Then publish it in the small type you use for factures, even if it has to be continued all over the place. The features can still appear in the space-beneath where a story

The contest could work like this: would always be open, and you'd pick the best of the stories that have been submit-ted for an issue just before it's time for the issue to be made up. All submitted stories could be property of Ziff-Davis. or else you could date each manuscript and return it after a year had passed if you couldn't make use of it. It would be open could be amateur authors, and as a "prize" you could pay le a word. By considering, the payment as a "prize", the authors wouldn't less their amateur standing. Another thing would be to restrict one author from winning more than once in a year; if he has wen once during a January-Decem-ber year (considering the dates on the magazines in which the stories appear) he cannot enter again until the time for the

next "January" issue comes bround What do you think of this, Mr. Editor? Why not take to Ressis. Zerf and Davis and the rest of the bright boys about it? It does away with one main argument against amateur stuff in a professional magazine; it won't be listed with the professional stories, or:even done in the same size type as they. And any amateur story you could pick would be as good as those features of yours.

What do the rest of you readers think? How about it! There's enough time, Bill, so that if you act now you can begin with the January FA. I think the idea is good. the January FA a tunk the over a country And the amateurs who are good enough to become professionals should really feel their efforts are being rewarded!

W. Paul Ganley

W. Paul Ganley 119 Ward Road North Tenawanda New York State

First of all, Paul, we like you! So t ere! And you are one of the most loud con-tributors to the RP. As to your fan mag, how about it, fams? Why not give Paul a break? We can speak personally about these fun projects. We edited a printed, these fan properts, we eated a prince, slick little job a decade ago cursulvs. It was a lot of fun, but getting subs was just as hard in those days as it apparently is now. And we'd like to any that these amuleur fanzines do a good job of exploit-ingracience rection and housing lan clubs together. It's as worthy a cause-even more so-than, the annual stf Convention. Without the fan mags there wouldn't be any Conventional ... As to the contest. we'd like to get a big reader reaction. Buh

gang? TREAT THEM ROUGH, HE-SAYS!

Dear Ed. how about putting an invite at the top of the Reader's Page like this: "This is your page. We are always glad to print as many interesting letters as we have room for. What do you think of the stories? How can we improve FANTAG. ADVANTUERS WE are borry that the exigencies of printing require maga-sines to be put out quite in advance of the date appearing on them, therefore, letters should be mailed about 10 (?) days after the time the magazine appears on the newsstand

Three or four pages of interesting comments and suggestions (you don't have to go, of course!) that the compony doesn't have to pay for is better than one stinkeroo story such as—well, I don't want to hurt anyone's feelings, so I won't mention its name—even authors are human—it is said—appeared in this September usue of FANTASTIC ADVENTURES. If you got a few latters that were illegible or, say, a few letters that were illegible or, say, off the subject, you could put a note at the end of the Reoder's Page like this: "And that, kiddies, is all for this month that we have room for. We also received interesting letters from John Smith, Ralph Balley, etc. etc." People like to see their names in print. Unless it's on a Shariff's "Wanted" poeter. You know how it is.

Bailey has figured out why it is that in some mags you see letters from the same person several times. These letter-hacks, er, I mean, gentlemen and ladies, are subscribers and have time to read and are subscribers and have time to read and occument on the stories about 10 days ls-fore the het polled can get the mag at the stands. Er-lf you print this maybe "that have to go around diselaming that I'm a better-hack, toxue you printed a letter of mine hefors. Sort of like the young gril who was teased that she was a flirt merely on account of two or three kisses. But that is the way writers are, If, for instance, the writers get one letter or book stance, the writers get one letter or book cacepted, they are not satisfied until they're inflicted a whole row of tripe on the long-suffering public, instead of working for a living! The writer who early write toe much to sait his enchanted public—like Alexander Dumas or Edgar Blee Burroughs—is a scarce bold—rare artis to

VMISE.

The reason I don't like to get magazines by mail is that, (1) the publisher usually louses up the cover with a gummed sticker, (2) the Postmaster (apparently) usually folds the magazine in half and jumps on it four times, thus putting an meradicable it four times, thus putting an inertalication crease on the cover and spelling the pic-ture, (5) the mailman (usually) tries to jam it into a mailhox that is inevitably too amail for it, or leaves it on a hall table where everyone can see it and say to sease warre everyone can see it shed say to themselves: "Himm. That hum reads "The Rag-Pickers Journa?, "The Saturday After-roon Fest', etc.," whatever the case may be, (4) I haven't got the two dollars and be, (4) I I

Well, leave us leave this insue chatter and get going rippin' the September FANTASTIC ADVENTURES apart. It is not one of the best insues, nor one of the worst, either. Three good stories out of worst, either. Three good stories out of seven is worth anyone's twenty-five cents. Even one good story is. I've noticed in FANTASTIC ADVENTURES' fairly long history that "fantastie" too often is held to mean "absurd". Personally, I'd rather you leave the pages blank that are used for such tripe as, in this issue, NO HEAD FOR HIS BIER. Even Mr. Hack himself could not rewrite a story like that and make anything worth reading out of it. Why not shoot the author? I'll key a kellet. I suppose if we critics are to amary we should write a better story ourselves? Well, that does happen, sometimes though; for example, a person who sees a hadly constructed sculpture or painting is not therefore necessarily able to make a better one. So perhaps the average smart-aleck newspaper columnist or editorial commenta-tor would not make any better mayor, senator, governor, or prez. than the one he vans at Lot's hone so.

duced it. . And here it is:



Remember Kiki?

. At 12, she began to pose in the nude for a . At 20, a play about her tantalised Paris & New York

. At 30, she wrote her memoirs and told everything, including an attempt on the virtue of her grandmather by a soldier of the AEF.

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	AMUEL PUTNAM
	th an introduction by
FIR	NEST HEMINGWAY

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:	tion of a French Model, which I may return for full credit if it doesn't utterly delight me.
-	NAME
	NO. & ST
	CITY ZONE

For first prize to authors this issue (one young Venusian cat-woman) I pick ■ [] Send COD STATE..... THE SHIP SAILS AT MIDNIGHT. For second prize (three-year free, subseription mag!) to DETONATOR, FORDS good science-fiction

And third price (a couple more and a gold fountam-pen) to WARRIOR QUEEN OF MARS.

And say, if you got any crary ideas of giving illes for writers of good letters, thank you kindly. I like the witcher for THE SHIP SAILS AT MIDNIGHT...the ting salir salies at silestonic tenant, that is, not the space-ship, of course. Like true to form runny-nosed little adolescent professional, science-fiction fans, how could I be interested in pictures of, or have brains enough to comprehend the pessibility of the existence of things have never sawed none of with my own exes, such as spaceships, and caves and ray-gums and stuff? But maybe there is hope for me—that is, if I don't wrot my brains out wreeding weird tales—in anoth-er ten years I might learn something. Who

. The file on Page 112 also is extremely well done, though the story is not worth mentioning

Now! Let us consider the cover. The old foldy-duddles simply screamed, no doubt, when they saw not one, but two LHB's (Lucious Half-Dressed Babes) on the cover. In fact, there's four! Women make good pots, but it costs a vor to reed them: The Important thing when one gets a new pet (one will say, one will, as this is a family magazine, that one has -during a spell of temperary insanity-

could happen to anyone!-morried the pet), well, the important thing is to teach the pet obedience/ Clear a large space on the living-room rug. Command her: "Lie down!"

"Roll over!"

"Sit up and back like a dog!" She probably will. If not you'll have to use a wife-whip on her. (Not enough to use a wife-whip on her. (Not enough to bruise her ponk hide, of course.) Can buy a good wife-whip in any house-furnishings store (a short length of not! allk courtain rope). Or else give her a kick on her plump bottom. (That is why God made her nice and round there, 'cause of knowing that sick, being a woran, would 'nee' pleathat she, being a woman, would need plen-ty of correcting—you can't tell God noth-ing. He knows what's wot.) But, of course

need I may it, take your shoe off first, as no gentleman (or Frofessional Science-Fiction Fan, either) kicks a lady with his shoes on

shees on. But to get back to the Babes on the cor-cer. There Babes are a recibilar The Schwarz-er was the same and the same and the same extremely low body temperature. Can you imagine an ordinary beight man like no, or same and the same that the same and the sam

plenty of cuffing around-for her own good, (Would be less divorce and neurosia) good. (Would be wat diverse and neutronia.)
But the low bodily temperature of these
Amazons? Probably it would take even me
two, three hours to 'warm one up good!
But, of course, good solid Babes with nienty in, the right places—old of nice firm
meat on them—are the best kind, Besides -with a low temperature, these Amazons could go around dressed merely in a rweet smile and their bare pink hide, and save

their clothes-money. Thanks for charging, those fittionised.

Thanks for charging, those fittionised.

Thanks for charging, those fittionised god idea, but III as so many good idea, but III as so many good idea, it didn't work. One period care think of everything, anyway. That is why your readers may come up with a god disable and the property of the period of the period

Ralph Balley 854 W. 56 St. New York 19, N. Y.

If you're married, Raksh, that nightmare that kicked you out of bed furt was want't a dream!. But on second basesht, with such an outlook wee coaldn't be married! faces you'll just have to west for some nice Martian Maid to practice on. At any rate, are covers mere de leart things nonnina

GETS THE CHECKERED FLAG Dear Bill:

Cover on the September FA is fair. Too

Cover on the September FA is fair. Too clustered us. Get overs by McLange, Insection of the Court of the Co of the said rag.

of the said rag.

Two way the for second as THE SHIP
SALIS AT MIDNIGHT and THE LAST
BOUNCE bank a skid and interact the
booy line simultaneously. Both stories
darn good. They are as illusive and strange
as anythin 'Ve ever read—almost. NO HEAD FOR MY BIER and DE-TONATOR tie for third at 2.7. The rest of the contents rates 2.5 or herlow.

I have precisely nothing more to say, so I will kwit. Don Lanoue N. 5023 Walnut Suckane 12, Wash.

We thought Leiber and Tenn did good jobs

By LEE OWEN

VENUSIAN CLAIM-JUMPER

THE FAT man waved airtly. "That's all I want you't to de, Johnson," he said, "Siske a regular daily patrol in the hell-but don't do it exectly on schedule, I don't know who the raider is—but he's ambushed two patrols already."

In spite of the de-humdhiffers I could

the horse we too occumentation I could be a considered with a constant atmospheric constant a

handle we med of the 160°. The two is to be fore "With that hand, be will control of the 160° and the 160° an

looked good to a System stray like myeff. first week nothing much happened, The first week nothing much happened, I partrolled Blanding's claims but I saw patiently working the mines for Blanding. Once or twice an overseer would come around for a check-up but for the most part the natives worked alone.

around for a check-up but for the mospart the natives worked alone. I was in the hut one night after a long thirty kilometer patrol. I'd just finishes eating and was half-doring into sleep. I



the perhapsise, construction, test tion, cervise and roosis of moders ears, trucks and buses. Dienni Englines, Hydramatis & Fluid Drives Fully Explained. A complete Guide of 1800 poses with over 1500 Bitustralises show for inside views of working partie with instructions be service jets. 187 PAYS TO KNOW How to fit phinoss—How to forms cogine knopsis, Movie to Konnect.

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heard a knock on the door. I pressed the button which opened the lock and let the atranger in the airlock where he could be

aprayed with chemicals before he entered the room. But I held a heat pistol in my "All right," I said, "come is."
The inner door opened and a figure

stepped through. I nearly jumped with surstepped through. I nearly jumped with sur-prine. Beneath the grotesque spore-mark and under the bulky coverall, I was looking at a girl. Those curved bulges weren't

The girl was fully armed but she had no weapon in her hand. "Well, Mr. Johnson," she said, "how do you like genning down innocent natives!" I raised my cyclrows with aurorise. "I don't get it," I auswered. "I'm patrolling for Blanding, and I haven't seen a claim-

Free for Asth jumper yet."
"Don't its to me," she said venemously, her voice acid with hate. "I'll show you the bodies, you rotten pig."

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BOY COWBOY Wholesome Reading for the Entire Family Il gophe-fined life in cain for Ziff-Davis Publishing Company, Dapt. C "Now wait a minute, sweetheart," I tried to joke, "You're all mixed up." I gestured with the flame platol, "Beides, I don't like atrangers playing rough with me—set!"

She laughed, a short ironic, bitter laugh, "If you raise that gun a centimeter, have you blown to shreds Involuntarily I looked toward the glass-ite windows. I could see three shadowy figures and the unmistakable outlines of

figures and the unmistakable outlines of riftes—pointed at ma! I showed the hear tritter. I sale, "I'm being level ster "Losten." I sale, "I'm being level with you, What's this all about? All I know is Blanding hired me to watch out for claim jumpers. I haven't sees any yet, and I haven't gunnel asybody down. Believe me, lady, I'm telling the touth! Her eyes narrowed. "You might be just dumb enough at that," she said quietly. "You don't know Blanding well, do she asked suddenly.

"No, I just met him a little more than "That explains it," she said. "You're coming along with me... I'm going to show you something. I'm going to show you sweathing.

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On Sale at Your Newsstand October 1st Clark Publishing Company 1144 Ashland Ave. Evanston, Ill. Blanding Is doing with his-with my-1 At her command I put on coveralls and spore-mask and went out the lock. She let me carry a rifle, but of course with three Venerians walking behind us, I was

helpless to do-anything dangerous to her. We walked through the night, stumbling and jumping and staggering through the dense vegetation. It's a lot different than working a belicopter, I'll say that. I recognized the number two mine the minute we came on it. It was an open strip affair. I nearly jumped with shock

when I saw what was going on. A hal dozen men were loading air scows with there was no mistaking that-rotund figure. It was Blanding!

We dropped behind the bole of a tree and watched operations, "What is this?" I whispered.
"My name's Corine," the girl said.
"These mines were stolen by that dirty

dog—the last total he's ever going to make too," she said vehemently. "I've always wanted to get him within a rifle sight." "Wait a mimuto," I muttered, "what's the idea of him raiding his own mines?" "Don't be simple," she said, sharply, "He's avoiding government regulations. He's shipping the stuff back to Earth He's shipping the stuff back to Earth custom and tax free which just about cuadruples his profits, Get the pitch?"

"Corine," I said grimly, "I'm not exactly what I appear either. My real name is Rannon Blake. I'm with the Patrol. This is the leak all right." I glanced at the Venerians. "Tell your boys to play bail with me. I don't want a bullet between my She muttered something rapidly to her Venerians and they grinned simperingly,

nodding their obvious approval. I drew a careful bead on Blanding. "All ght. Blanding," I hollered out, "surrenright, Blanding, I hollered out, "surren-der! This is Blake—I mean Johnson—I know the whole story!" Blanding jerked up with surprise. He made an abrupt up with surprise. In man of such bulk, and a heat restol flared from his side. The bolt cut through my coveralls. That was all brother. I fired. ill brother. I fired.

The big figure fell. My bullet had gone brough a knee-cap. Nothing takes the

fight out of a man quicker. The rest was easy. Blanding's rogues gave up in a burry. more successful patrol. And this one was even more successful. I'm thinking of going into the mining end myself. A beautiful face and a luscious figure-even under coveralls—have a lot to do with it-Corine knows that ...

DUST STORM ...

WITH THE curtains drawing closed for the sceming finale of peace and the preinds to a third world war, the prophets of doom are having a field day. Infortunately we can't dismiss their her-







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rible predictions with a laugh because they're all too true. The biological boys have quieted down somewhat, but the radioactive poisoners are looming up in full

As dreadful as the atomic and hydrogen bombs are—just ask a Hiroshiman—their explosive effect is but one-tenth of their ghastlines. They can lay waste vast areas of cities and in the initial fire and flash wipe out tans, if not hundreds of thousands people-but even more malignant in a far subtler way is terror which follows in their wake. This terror is radioactive dust. The products of the hombs, explosion are not only fragments of the bombs, but able induced radio-activity. This vicious dust

induced ramo-activity. This victors dues billowing up in wast quantities and coatter-ing itself everywhere is more terrible to contemplate than the bomb. Now word comes that from the atomic laboratories of the world, gigantic quantities of simple dusty powders are being made, powders which look perfectly harmless but which are the seeds of sheer horror—radio-activ-

Radioactive dusts, depending upon their half-life—cannot be eliminated in any known way saye by painful tedious washing and scrubbing-and not even then, if they have settled into cracks and open-ings. There is no way to combat such an insidious weapon save by letting it burn itself out. This may take years.

Only time will tell whether or not the great powers will have the audacity to contaminate the very earth and atmos-phere with lethal agents like these. The slow sickness of radiation against which almost no medication exists is an impossihie and implacable for Perhaps no one will use this agent in any future conflict —but don't bet your shirt on it. From where we sit, the only course for From where we st, the only come to the future—if there be one—is to take the fastest rocket for Mars or Venus that you can find—and hold up tightly!

TIME WARP. ARRY BLAKE stared ruefully at the

complicated maze that confronted him. This amplifier was beauty! But the de-signers couldn't have made it more complicated if they'd tried. He picked up the probe of the vacuum tube voltmster and touched it to point six on a tube societ. There was a hiss and

the areing of electricity. "Damn!" Larry said vebemently, "Now 've really wrocked it!" And the amplifier had to be ready for temerrow's runs. Dr. Westen would blow his stack. Larry yawned and stared out the window into

and no one was around. Why did he have to stay around tonight? Oh well, he muted philosophically, the job's got to be done. He turned to wick un the voltmeter probe once more when some-thing on the bench caught his sys. He'd

have sworn it wasn't there before! He have sworn it wasn't there before! He looked at the gray metal case. Now who put an oscilloscope here? He got up from e stool and walked over to the gadget. The minute he got close to it he saw comething was wrong. It looked like a big-eyed oscilloscope in one respect-and pet it was different. The metal appeared so shiny! Almost as if it were emitting light itself—a soft diffused radiation that

seemed so pleasant. But it hadn't been there a minute before. Larry soratched his head. What the devil was happening around here? He shook his head—must be getting punchy. m losing my grip, he thought. He was about to turn back to the pliffer again when something made him-look closer at the metal box. He scrutinged it closely. There was some printing on the cover, Larry read: "El-analyzer". That was ver. Larry read: "El-analyzer", That was

lifted the lid which popped open in a po-culiar way in spite of the fact that there seemed to be no clips or clasps. A small glass plate stared up at him and two metallic-locking cables lay colled to one side of the plate. Larry feit them. They had the oddest rubbery feeling—and they were tipped with metal.

Larry stepped back. This was gag! Well, I'll show them, he said mentally. But there didn't seem to be anything falo about the thing. Gingorly he picked up the instrument—it was amazingly light—and brought it alongside the analyzer. He took out one of the cables—picking at random and touched it to the high voltage source on the amplifler.

Then his eyes nearly pepped out of his The glass plate softly glowed: "Hi-vot-458.3 v.-.,01% ripple"--- it said in clear black letters almost like type yet wavery like light!

This thing was a real analyzer-and a homey! Larry touched the cable tip to the circuit which had just flashed and which he was certain he'd blown. You could even see the glassy deposit on the side of the fuse. The plate lit up again, This time it said: "Capac grounded-burn three—fus now And in that instant it seemed to Larvy

eokay-

as if the fune moved slightly-and then it "My God!," Larry said, "what have I got to? I better call Dr. Weston. This thing hero? magie!" is magic!"

He picked up the phone and dialed Ko-J-1902. Holding the phone he turned Ko-J-1902. Holding the phone he turned the phone has been considered from the phone based. Finally be get an asswer. The sleepy voice of Dr. Weston suit. "Hello! Weston speaking."

"Hello, Doc," Larry sald, "say, I've got the crasiest gadget down here. It's some

kind of a circuit analyzer. Do you know about it?" "Where is it?" "Right on the bench he-" Larry broke

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JAMES J. BRADFORD

off abruptly. There was a weird shim-mering before his eyes and the instrument slowly faded from view "He just disappeared!" he shouted.
"What did you say?" Westen queried.
"I say it just vanished. It's gene. I deat set it..."

Forget it, Larry," Dr. Weston and. "Basure to fix the analyzer—and Larry—"Yes!" Larry managed feebly.
"Don't bother me with your nightmares. Keep on the ball."

Larry sat down weakly as he hung My the phone and stared at the space whey the instrument had been. "I wonder," he "I wonder and three thousand years away, the cold metallic voice of the Mekaniker said

to the frightened human slave; "I told you to the frightened human slave: "I told you not to use the stasts. That's the second time yee've missed an instrument. If a good thing for you that the power-wat on. Ah, here it is now. Don't let this barren and the state of the second that the second that the power wat on the second that the power wat on. Ah, here it is now. Don't let this barren and the second that the second th And the furtive crouthing figure and said of Mekaniker-I will be careful. Please... will be very careful with the Mekanik

tool, very careful ...

RÉMOTE SUPERNOVA

IN SPITE of all the difficulties experienced with setting the new two hundred inch reflector at Mount Palemar into operation, it has already made some viuable contributions to astronomy. When it is perfected and all the "bags" are ironed out, we can hope for great things Recently with this instrument, the m necessary with this introduced, the mo-ditant supernova was discovered. Fift million light years away, a supernova flared into being in the Come subaxis-and even at that tremendous distance or corded itself on a photographic plate in-mash the mirror of the two hundred inti-

Had this supernova been as near all some of the ethers which have been dis-covered it would have appeared as bright as the Moon! The whole field of supernovae is interesting and to this date original haven't yet been satisfactorily explained

A nova is essentially a star which for no apparent reason flares, into extreme brilliance. Theoretically this is, don to the disruption of the internal gravity disraption of the internal group-we star by the pressure of its own 25% but of course this is uncanfirmed trigger that sets off this unless completely unexplained. A superati-simply the same thing on a vasily, it scale. The hypothesis that we make nessing the disruption of a star nessing the distription of a star, for own planet by intelligent entities using at energy, while completely fantastic, still an elemant of plausibility to it. Strau-things can happen. Witness the no

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